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BULBS
for
Autumn
Planting
Stumpp & Walter Co.
30 & 32 BARCLAY ST.
NEW YORK

Our display of over two hundred and fifty varieties of Spring-flowering Bulbs at the International Flower Show, New York City, March, 1915

SPECIAL FREE DELIVERY

WE will deliver all goods listed in our catalogue, except Spirea, Lily-of-the-Valley Clumps or Pips, Fertilizers, and goods listed on pages 44 to 56, inclusive, if your purchase amounts to One Dollar or over, when cash accompanies the order, via Express, Parcel Post or Freight, at our option, to your town or city, provided your home is within 500 miles of New York City.

A WORD ABOUT QUALITY

Our business, whether in Seeds, Bulbs, Plants, Implements, Fertilizers, Insecticides or Poultry Supplies, has always been conducted with a view of supplying the finest quality that can be had.

Our growers of Bulbs in Holland, France, Bermuda, China and Japan realize that we are expert judges, that we pay highest market prices, which insures proper growing on their part, and that our personally conducted trials keep us properly informed as regards their stocks.

One of the principal features of our business is to keep always a display of seasonable goods at our spacious stores, and we welcome our patrons who come to New York to visit our establishment. You will find our clerks never too busy to talk with you about your wants, or to make suggestions.

JULIAN H. WALTER, President
GEORGE G. STUMPP, Treasurer
WILLIAM A. SPERLING, Secretary

Stumpp & Walter Co.
NEW YORK

The tendency to plant bulbs along banks of streams, in the grass and along woodland driveways, has induced us to mention a few of the bulbs which may be had in quantities at nominal prices. *Narcissus poeticus* is frequently used in large quantities for this splendid purpose.

FOR DESCRIPTIONS, SEE BODY OF CATALOGUE

	100	1,000
Camassia esculenta (Indian Quamash)	$2 00	$15 00
Chionodoxa Luciliæ (Glory-of-the-Snow)	1 50	12 00
Crocus. Mixed sorts	75	6 00
Eranthis hyemalis (Winter Aconite)	1 50	10 00
Erythronium (Dog's-tooth Violet)	1 50	12 00
Fritillaria Meleagris (Guinea-hen Flower)	1 50	12 00
Grape Hyacinth. White and Blue	1 00	8 00
Iris Anglica (English Iris). Mixed	2 25	20 00
Iris Hispanica (Spanish Iris). Mixed	1 00	8 00
Leucojum vernum (Spring Snowflake)	1 50	12 00
Lilium Canadense (Canadian Bellflower Lily)	9 00	80 00
Lilium superbum (Turk's Cap Lily)	10 00	90 00
Lilium tigrinum (Tiger Lily)	10 00	90 00
Narcissus Barrii Conspicuus	$2 00	$15 00
Narcissus, Golden Spur. First size	2 00	18 00
Narcissus Leedsii, Mrs. Langtry	2 00	15 00
Narcissus poeticus (Poet's Narcissus)	1 25	9 00
Narcissus, Victoria. First size	2 50	20 00
Narcissus, Van Sion, Double. First size	2 50	22 00
Narcissus, Double Varieties. Mixed	2 00	18 00
Narcissus, Single Giant Trumpets. Mixed	1 25	12 00
Ornithogalum umbellatum	1 00	8 00
Scilla campanulata. White or blue	1 50	12 00
Scilla nutans, Blue (English Bluebell)	1 00	8 00
Snowdrops, Single Elwesii Giant	1 25	9 00
Trillium grandiflorum (American Wood Lily)	5 00	45 00

SINGLE EARLY TULIPS

FOR APRIL-BLOOMING OUTDOORS, POTS AND FORCING

Few, if any, of the spring-blooming flowers rival the Tulip for brilliancy of bloom or ease of culture. For formal beds on the lawn or garden borders they are excellent subjects. They do not possess the same size of bloom and length of stem of the May-flowering Darwin, Breeder and Cottage varieties, but where early blooms are desired they are frequently used. Many of the varieties may be forced in bloom in January, while all the varieties may be easily had in flower in pots late in February or early March.

Culture.—For indoor blooming they require the same cultural treatment as Hyacinths.

Outdoor Culture.—Bulbs may be planted with good assurance of success even in early December, if the ground is open. They should be planted not more than 5 inches apart, covering the bulbs about 4 inches over the top. After the first sharp frost which forms a light crust on the surface of the soil, old leaves or litter should be spread about 6 inches thick over beds or borders to prevent frost from going deeper. Do not cover bulbs, if planted early, until the first sharp frost, as field-mice frequently nest among leaves and destroy bulbs, which is impossible if the covering is placed after the first frost.

Note.—The letters A, B and C, following the varieties indicate their relative earliness of bloom; but, with few exceptions, most of the varieties, however, bloom outdoors about the same time when planted in masses. The figures indicate the height in inches.

The following list contains the best novelties extant, as well as a complete list of the best standard varieties. We have discarded quite a number of varieties which no longer grow well.

Arrangements of Colors for Bedding

We are frequently requested to supply varieties adapted to color combinations in beds or borders, and offer the following suggestions:

La Reine and **Artus**	**Artus** and **White Hawk**	**Prince of Austria** and **Mon Tresor**
Lady Boreel and **Wouverman**	**Goldfinch** and **Princess Helen**	**Lady Boreel** and **Joost Van Vondel**
Chrysolora and **Dusart**	**Primrose Queen** and **Wouverman**	**Cottage Maid** and **Dusart**

Varieties especially adapted for planting in masses, and not combined with another sort, are

Cerise Gris-de-Lin **Couleur Cardinal** **Le Reve** **Pink Beauty** **Keizerkroon** **White Swan**

BEST STANDARD AND NEW AND RARE VARIETIES

	Doz.	100	1,000
Apollo. C 14. Deep blood-red, changing to claret as the flower ages. Splendid for bedding or late forcing	$0 75	$5 00	$45 00
Artus. B 10. Bright scarlet. Recommended for bedding only	25	1 25	11 00
Belle Alliance. B 11. Brilliant scarlet, yellow base; large flower. Excellent for bedding or forcing	35	2 25	20 00
Blushing Bride (Mme. Frylink). B 12. Very bright pink, of striking beauty and fine form. Excellent for early forcing and pots	60	4 00	35 00

Brilliant Star. A 12. Bright vermilion-scarlet, same color as Vermilion Brilliant, but larger and of greater substance. Splendid early forcer, flowering easily for Christmas. **75 cts. per doz., $5 per 100, $45 per 1,000.**

	Doz.	100	1,000
Cardinal Rampollo. A 11. Clear yellow, bordered bright orange-red; a good-sized flower of very showy character. Forces very easily.	$0 50	$3 50	$30 00
Cerise Gris-de-Lin. C 11. Dark carmine-violet, shaded fawn and margined creamy white, with yellow base; large flowers of globular form. A novel bedding variety, but must be planted alone; excellent for March forcing	80	6 00	55 00
Chrysolora. B 12. Clear golden yellow; large, globular flower. A splendid Tulip for beds.	$0 30	$2 00	$15 00
Cottage Boy. B 12. Canary-yellow, edged light orange-red, medium-sized flower of good form. A fine new variety for bedding or midseason forcing	35	2 75	25 00
Cottage Maid. B 10. Carmine-pink, center of petals feathered white. Good bedding sort.	25	1 50	12 00
Couleur Cardinal. C 12. Brilliant crimson-scarlet, with a purplish bloom on the outer petals and yellow base. Splendid if bedded out alone and excellent for March forcing	40	2 75	25 00
Cramoisi Brillant. C 10. Glowing scarlet, with yellow base. Large, bold flower for bedding	30	1 75	15 00
De Vlieger. B 14. A beautiful, glistening cherry-rose when fully open; a long flower of striking color, and one of the best of the newer varieties	60	4 50	40 00

De Wet. B 16. Golden yellow, flushed deep orange; large, sweet-scented flower of erect habit. A new Tulip of a color unlike any other variety. Excellent for forcing or bedding. **$5 per doz., $35 per 100.**

SINGLE EARLY-FLOWERING TULIPS, continued

	Doz.	100	1,000
Duchesse de Parma. B 11. Deep orange-maroon, with an irregular border of deep yellow; large, globular flower	$0 30	$2 00	$18 00
Dusart. B 12. Deep vermilion-red; large flower of fine form. A splendid bedding variety, keeping its color even in smoky atmosphere	30	2 00	18 00
Fabiola. B 11. Rosy violet, striped white; large, full flower; very showy and the best of the violet-striped Tulips	40	3 00	28 00
Flamingo. B 12. Carmine-rose, shaded light, with a white stripe through the petals; large, crinkled flower of beautiful shape	75	5 00	45 00
Goldfinch. B 11. Pure deep yellow, retaining the color throughout life of the flower. One of the best for bedding or forcing	30	1 75	16 00
Golden Queen. B 13. Golden yellow; large flower of extra-fine form. Excellent for early forcing	40	3 00	28 00
Grace Darling. B 13. Bright bronze-scarlet, very effective tone; big, bowl-like flowers borne on strong stems; excellent for bedding	50	3 50	30 00
Jenny. B 12. Beautiful, silky carmine-rose. The faint silvery white stripe on the middle of each petal and broadening toward the base adds much to its beauty	50	3 50	30 00
Joost Van Vondel. B 12. Cherry-red, irregularly striped and flaked white, with white center. Early forcer and good bedder	35	2 50	22 00
Keizerkroon. A 15. Bright crimson-scarlet, edged clear, rich yellow; excellent, large flower on long stem	35	2 50	22 00
King of the Yellows. A 14. Deep golden yellow; the flowers are egg-shaped, very substantial and carried on a tall stem, which makes them excellent for cutting. One of the earliest yellows for forcing	35	2 50	22 00
Kohinoor. C 10. The deepest rich scarlet early Tulip; splendid for late bedding	60	4 50	40 00
Lady Boreel (Joost Van Vondel White). B 13. Snowy white; large, long flower of perfect shape. The finest white for bedding, and superb for pots or pans	50	3 75	35 00
La Reine. B 12. White, flushed faintly with pink. Used largely by florists for early forcing; good for bedding also	25	1 50	12 00
La Remarquable. C 13. Brilliant claret-purple, edged and tipped old-rose; large flower of beautiful, reflexing form. A variety distinct and pleasing in color	75	5 50	50 00
Le Matelas. A 12. Glistening pink, tipped white; one of the earliest varieties. May be forced into bloom for Christmas	50	3 50	30 00

Le Reve (Hobbema; Sarah Bernhardt). C 14. This variety caused considerable favorable comment in our exhibit of bulbs at the New York Flower Show this spring. The color is old-rose, flushed buff; a very large, globular flower with rounded petals and carried on a strong stem. Excellent for late bedding, and retains color well if not forced before March. **$1 per doz., $7 per 100, $65 per 1,000.**

	Doz.	100	1,000
Max Havelaar. B 12. Blood-orange, flushed salmon-rose. When grown outside the color is as described above; when forced it gets a unique cherry-red	$0 75	$6 00	$55 00
McKinley. B 14. Dull cerise-red but paler and more beautiful in color when forced. One of the earliest and very charming for pots	75	5 00	48 00
Mon Tresor. A 12. Golden yellow; the flowers are large and of a pure color. Mostly used for growing in pots or pans for which purpose it is best; a good bedder also	30	2 00	18 00

Pink Beauty. C 12. Vivid cherry-rose, center of petals striped white. It has no equal as a bedder, for the stem is strong and the white center of the big, fleshy petals shows up very conspicuously against the broad, vivid rose edges. Does well in pans, but not before March. **75 cts. per doz., $5 per 100, $45 per 1,000.**

	Doz.	100	1,000
President Lincoln. B 12. Clear magenta-violet; large flower; very effective when grown beside a light yellow Tulip, such as Primrose Queen. Fine for beds or forcing	$0 50	$3 50	$30 00
Primrose Queen (Herman Schlegel). B 12. Primrose, edged canary-yellow; medium-sized flower of exquisite form. Splendid for bedding, and attractive in pots	40	2 75	25 00
Prince of Austria. B 14. Brilliant orange-scarlet, yellow base; large and very showy flower; deliciously scented	30	2 25	20 00
Princess Helen. B 12. Very clear, pure white; large flower. Fine for bedding, and a superb early forcer	35	2 50	20 00
Proserpine. A 14. Rosy carmine, with a white center marked slate-blue; a very large, globular flower; deliciously scented	50	4 00	35 00
Prosperity. A 11. A variety much on the order of early Tulip Flamingo, but of a greater substance and keeping qualities	1 00	7 00	65 00
Queen of the Netherlands. B 13. Very soft, pale rose, flushed white, with white base; very large, egg-shaped flower. The handsomest pale pink bedding Tulip	35	2 50	23 00
Rising Sun. B 15. Rich, deep golden yellow; beautiful long flower; forces well; of wonderful substance	1 50	12 00	
Rose Gris-de-Lin. C 10. Delicate rose, shaded blush-white; good for bedding or forcing	25	1 50	12 00
Rose Luisante. C 10. Brilliant, deep rose-pink; large flower. Splendid for bedding, or pots or pans when forced late	40	3 00	27 00
Sir Thomas Lipton. B 12. Dark scarlet, with a yellow base, marked olive-green; large, cup-shaped flower of great substance	60	4 00	38 00
Stanley. C 12. Rich American-Beauty-rose tone. Good for bedding and splendid for forcing in pots or pans	40	3 00	27 00
Thomas Moore. B 12. Dull rosy terra-cotta, shading at edges of petals to dull orange-yellow, center marked olive-green; medium-sized flower; sweet-scented. Lovely color when forced	30	2 00	15 00
Vermilion Brilliant. A 12. Bright, glistening scarlet, with a yellow base; very large flower of perfect shape. Splendid for early forcing	40	3 00	26 00
White Hawk. B 12. Beautiful pure white, very large globular flower of great substance, exquisitely formed, with crinkled petals. The earliest and best forcing white variety in our list	35	2 50	23 00
White Swan. C 13. Pure white; large, oval flower of fine form. Excellent for bedding or late forcing	35	2 50	23 00
Wouverman. B 12. Rich, dark purple; large flower. Very handsome if bedded with a white variety like Princess Helen	60	4 50	40 00
Yellow Prince. B 12. Clear golden yellow. A large flower used by florists for early forcing or bedding	30	2 00	15 00

S. & W. Co.'s Rainbow Mixture. A mixture consisting of 25 named varieties, blended so as to give an assortment of all possible colors and shades, all of vigorous habit and large size, uniform height and time of blooming. 25 cts. per doz., $1.50 per 100, $12 per 1,000.

GIANT DARWIN TULIPS, May-Flowering

The Tulips of Milady's Garden

When Milady on a brilliant May morning surveys her garden border planted in clumps of Darwin and Cottage Tulips, the blooms as large as the giant Cattleya orchids, the petals as thick and as massive as the water-lily, glittering and glistening in the sunlight, she will be tempted to say that these Tulips are indeed the Queens of the Spring Garden. Whether you delight in having flowers with 2- to 3-foot stems for cutting, masses of color against the background of shrubs, planted in clumps of ten or twenty-five each in the herbaceous border, or in various-shaped beds on the lawn, few other Tulips will provide such a wonderful display.

TWELVE FINE DARWIN TULIPS

The varieties listed on this page are intended for our patrons whose garden-space is limited, and who prefer a short list to select from.

	Doz.	100	1,000
Baronne de la Tonnaye. A long and beautiful flower; clear carmine-rose at the midrib, toning off to soft pink at the edges; base white, tinged blue. Excellent for early March forcing and just as fine for outdoor beds, where it keeps up a splendid show for a long time. Height 26 inches.	$0 40	$3 00	$28 00
Clara Butt. Clear pink, flushed salmon-rose; good-sized flower of very handsome shape. The finest Darwin of its color. Exquisitely beautiful out-of-doors, and one of the best for pots if not forced too early. Height 21 inches	40	3 00	28 00
Dream. Large flowers, perfect in form, on tall, strong stems; color rosy lilac and mauve with claret-purple interior. Handsome in combination with the dark lavender- and violet-colored varieties. Height 24 inches.	70	5 00	48 00
Europe. Deep, fiery crimson, white base. There is no more beautiful sight than a bed of this variety. Stems are of medium length; the flowers large and erect, with white base contrasting well when the flower is fully open. Height 22 inches	60	4 00	38 00
Glow. Bright vermilion-scarlet, white base, with blue markings; good-sized flowers of distinct shape. An excellent scarlet for bedding and forcing. Height 20 inches	50	3 75	35 00
Gretchen (Margaret). Pale rose ground, faintly flushed white, center white, marked blue—a very delicate color; flower globular in shape, borne on a strong stem. Splendid for forcing. Height 22 inches	30	2 00	18 00
Lantern. Pale silvery lilac, passing into white, inside clear lilac, with white base; medium-sized flower of beautiful form, a light violet counterpart to Gretchen. Height 20 in..	40	3 00	28 00
Mrs. Potter Palmer. Bright purplish violet, base white; a large flower. Very attractive for border planting. Splendid for contrasting with lighter varieties. Height 28 inches	70	5 00	48 00
Philippe de Commines. A grand flower of dark, polished mahogany color, with a purple base. One of the best of the less expensive sorts in this color. Height 24 inches	60	4 00	38 00
Pride of Haarlem. Magnificently formed flower of immense size; brilliant, deep salmon-rose, shaded scarlet, light blue base. This variety, perhaps the most widely known for its stately habit and glorious color, is unsurpassed for border or early forcing. Height 26 inches	50	3 50	32 00
The Sultan. Rich maroon-black with blue base; small flower of fine form; a good Tulip among the darker sorts to plant with yellow Cottage Tulips. Excellent for forcing. Height 25 inches	40	2 75	24 00
White Queen (La Candeur). Almost a pure white when mature; faintly blush-rose when first open. Excellent for borders and pots. Height 24 inches	60	4 00	38 00

COLLECTIONS	**5 Bulbs each of 12 Varieties, 60 Bulbs,**	**$2.25**
	10 Bulbs each of 12 Varieties, 120 Bulbs,	**3.50**
	25 Bulbs each of 12 Varieties, 300 Bulbs,	**8.00**

Darwin Tulips, planted one variety to each bed; the boxwood edging proves a splendid and effective setting

GIANT DARWIN TULIPS, May-Flowering

For the herbaceous border, massed in clumps along the edge of shrubbery, or as cut-flowers for vases, these are conceded to be the superior of all the Tulips

The maddening craze for the Darwin Tulip is not due to fad or popular fancy, but rather to an awakened sense of appreciation of their majestic beauty. The rich, bright colors of the blooms, their somber tones, their many pale and more lovely colors, produced on strong, gigantic stems from 2 to 3 feet, all vie with one another and capture even the casual observer of spring-flowering bulbs. Once grown, the amateur becomes interested and soon becomes a fancier with a hoard of varieties, excusably jealous of everyone he or she grows.

For the borders among other hardy flowers, in formal gardens in conjunction with Single Early Tulips, for isolated groupings against a background of shrubs, or for combinations of delicate colors for effects of contrast in the flower-garden, the Darwins are without a peer.

They range in color from the daintiest pink, rose, salmon, red, etc., to deep, rich crimson; from lavender through mauve and light blue to violet-purple and the so-called "Black Tulip." There are a few good whites, but no clear yellow, and where this color is desired a selection should be made from the Cottage Tulips listed on pages 8 and 9. All buff and bronze shades frequently classed as Darwins are Breeders.

CULTURE.—Bulbs should be planted 5 to 6 inches deep and not less than 5 inches apart. Sand to the depth of ½ inch at the base of the bulbs will amply repay the trouble by the provision for drainage during wet weather. For forcing, bulbs should be planted as soon as received, and the flowers appear to better advantage if pots a trifle deeper than the ordinary bulb-pans are used. We recommend what are termed azalea-pots for this purpose. A temperature of 55 to 60 degrees is recommended, as if allowed to "come gently," larger flowers and longer stems may be had.

	Doz.	100	1,000
Andre Doria. Deep maroon-purple, velvety sheen, with black base; beautiful, large flower. Splendid outdoors, equally good for forcing. Height, 26 inches	$0 60	$4 00	$35 00
Ariadne. Bright rosy crimson, shaded scarlet, with blue base; large flower of great substance. For outdoor planting or forcing. Height 28 inches	70	5 00	48 00
Bartigon. Fiery crimson; a very showy variety, with white base which shows up splendidly when the flower is open. One of the earliest forcing varieties. Height 26 inches	70	5 00	48 00
Carl Becker. Pale rosy violet, with center flushed salmon-rose. Splendid Darwin for outdoors; equally good for forcing, but paler in color. Height 32 inches.	50	4 00	35 00
Erguste. Soft violet, with a slight silvery flush; flower of medium size. One of the best Darwins for forcing, keeping its refined color splendidly. Height 26 inches.	80	6 00	55 00
Euterpe. Bright mauve-lilac, edged paler lilac, white center, with blue halo; large flower of exquisite color. Height 26 in.	1 00	8 00	
Fanny. Clear rosy pink, with white center marked blue; not a large flower but one of exquisite color and form. Splendid for outdoor planting and for early forcing. Height 25 inches	$0 60	$4 00	$38 00
Farncombe Sanders. Scarlet, with a rosy bloom, center white; large, broad-petaled flower of perfect shape, conceded to be the best in its color, either for outdoors or forcing. Height 25 inches	70	5 00	48 00
Faust. Satiny purple, with blue base; very large flower of fine form; a splendid Tulip in every way. Height 30 in.	1 25	9 00	85 00
Flamingo. An even tone of pure shell-pink; flower pointed and of refined form. Of unsurpassed beauty for border planting. Height 28 inches	1 25	9 00	85 00
Isis. Fiery crimson-scarlet, with blue base; very large flower of striking beauty. The most brilliant of its color. Height 26 in.	75	6 00	55 00
Jules Vinot (Princess Elizabeth). Beautiful, clear rose-pink, with a white base. A magnificent, large-sized Darwin of sturdy habit. Height 26 in.	75	6 00	55 00

FOR OTHER MAY-FLOWERING DARWIN TULIPS, SEE PAGE 6

GIANT DARWIN TULIPS, May-Flowering, continued

	Doz.	100	1,000
King Harold. Intense ruby-crimson, center rich black; very tall and of fine form; new and stately variety; very distinct. Height 24 inches	$0 50	$3 50	$32 00
La Tristesse. Deep slaty blue, with white base; very distinct in color; medium-sized flower. Height 26 in.	75	6 00	55 00
La Tulipe Noire (The Black Tulip). Deep maroon-black, having a velvety sheen in the sunlight; large flower of fine form. Height 25 inches	2 25	15 00	
Madame Krelage. Bright lilac-rose, margined pale silvery rose; flower long and of excellent form. Excellent for borders or pots. Height 28 in.	50	3 50	32 00
Marconi. Blue-purple, maroon shading on opening, changing to ashy purple with age, white base. Height 27 in.	1 00	7 00	68 00
Massachusetts. Pink, with white center; large flowers of beautiful color and form. Height 24 inches.	60	4 00	38 00
May Queen. Pale lilac-rose, center delicately marked blue; very long, large flower. Excellent for borders or among shrubs. Height 26 inches	50	3 50	32 00
Moralis. Glossy violet-purple, center shaded white, distinct and handsome. Good for forcing as well as outdoors. Height 32 inches	1 25	9 00	
Nauticas. Dark rose, center clear violet, shaded bronze; large flower. Excellent for outdoors and early or late forcing. Height 30 inches	50	3 50	32 00
Ouida. Bright crimson-scarlet, with slight purplish bloom, white base, starred blue. A variety that retains its wonderful color remarkably well. Height 29 inches	50	3 50	30 00
Painted Lady. Cream-white, with a faint tinge of heliotrope when open; good-sized flower resembling somewhat a water-lily. One of the best varieties for outside or forcing. Height 27 in.	50	3 50	32 00
Palissa. Soft lilac-rose, base white; a very handsome variety that should be in every collection. Height 24 in.	60	4 50	42 00
Pensee Amere. Slaty violet, with a broad flush at outer petals of rosy lilac, white base. Egg-shaped flower of small size but exquisite color, either outdoors or when forced. Height 26 in.	1 00	7 00	68 00
Prof. Rauwenhoff. Deep cherry-rose, with salmon glow inside; enormous flower of great substance on a strong stem. Superb for borders or among shrubbery and one of the finest forcing varieties. Height 28 inches	$0 75	$5 50	$52 00
Psyche. Old-rose, edged white, inside lighter rose, base blue. A very grand variety for February forcing. Height 26 inches	75	6 00	58 00
Remembrance. Pale lilac, general tone of the flower silvery. Quite distinct; large flower. Height 25 in.	2 00	15 00	
Rev. H. Ewbank. Vivid heliotrope-lilac; flowers broad. Excellent for forcing; best in its color. Height 22 inches	70	5 00	48 00
Suzon. Center of petals buff-rose, shading to blush at the margin, with white base, delicately marked blue. A very much admired variety in the fields; of strong, stately habit. Height, 25 inches	75	6 00	55 00
Violet Queen. Deep rose-violet, with white base; large flower of distinct, pleasing color and stately habit. Height 28 inches	1 50	12 00	
William Copeland. Uniform lilac-rose when grown in pots. A most captivating color when grown inside. One of the best as well as easiest forcers. Height 24 inches	75	5 00	48 00
William Pitt. Very dark crimson, with purplish bloom on the outer petals. Of great size and beauty. Height 24 inches	60	4 00	38 00
Zulu. Deep, velvety purple-black; large, egg-shaped flower of very distinct form. Fine for border or forcing. Height 27 inches	1 25	9 00	85 00

Superb Prize Mixture. **The revival of the craze for these splendid Tulips has brought out a great many varieties too numerous for listing, except those considered the best. In addition to the varieties listed above, our mixture contains an equal proportion of many others. Brilliant effect may be obtained by the planting of this mixture of choice named sorts. 35 cts. per doz., $2.25 per 100, $20 per 1,000.**

A well-designed and pleasing display of Darwin Tulips

DUTCH BREEDER TULIPS, May-Flowering

Breeder Tulips are very similar in habit to the Darwins, and flower at the same time. Their chief characteristic is their immense blooms, borne on strong, stiff stems, many of them longer than the most gigantic Darwins. The revival of the taste for art colors has made these Tulips, at one time very popular in England, strong favorites with American enthusiasts, who find in their bronze, buff and brown shades excellent material for contrasting with the light and bright colors of the Darwins. **They require same cultural treatment as the Darwins.**

Bronze Queen and Jaune d'Oeuf Tulips

	Doz.	100	1,000
Apricot. Dull bronzy buff, shaded deep apricot, base olive-green. A splendid border variety	$1 50	$10 00	
Bronze Queen. Soft buff, inside tinged golden bronze; large flower of remarkably sturdy habit. Very fine out-of-doors, and of exquisite color when forced. Height 24 inches	85	6 50	$62 00
Cardinal Manning. Dull wine-red, flushed rosy bronze; very large flower. Height 28 inches.	50	4 00	38 00
Chestnut (La Nuit). Very dark brown, almost a black; very effective when planted with pale yellow sorts of the Cottage Tulips. Height 24 inches	$0 50	$3 50	$32 00
Dom Pedro. A unique shade of coffee-brown, shaded maroon, inside rich mahogany; large flower; very fragrant. Height 21 inches	3 00	20 00	
Fairy. Reddish mahogany, with bronze shading; an extra-large flower of artistic character. Splendid in borders or for late forcing. Height 24 inches	1 00	7 50	72 00
Feu Ardent. Crimson-red, with mahogany shading; large, cup-shaped flower of brilliant tone for a Breeder. Height 24 inches	2 50	15 00	
General Ney. Dull old-gold, with olive base; large flower. Height 25 inches	1 00	7 50	72 00
Heloise. Vandyke-brown, shaded old-rose; inside Vandyke-brown, edged plum, with yellow base, marked olive-green; large, reflexing flower of exquisite color and form. Height 28 inches	2 50	15 00	
Jaune d'Oeuf. Ruddy apricot, inside soft yellow, with black base and anthers; very striking variety. Height 21 inches	50	4 00	35 00
Lucifer. Clear orange, with a rosy flush and olive base, with yellow star; enormous flower on a tall stem. Height 24 inches	2 00	15 00	
Plutarchus. Bronze, overlaid with dull lilac, inside shaded with terra-cotta toward the olive-green base. Height 26 inches	2 50	15 00	
Prince of Orange. Orange-scarlet, edged lighter red; large, striking flower. Splendid for the border and good for forcing. Height 24 inches	85	6 50	60 00
Turenne. Purplish brown, with a broad margin of soft yellow; very large flower of beautiful color. Height 28 in.	2 50	15 00	
Velvet King. Dark, glossy purple-maroon, with a white base marked blue; an enormous flower having an extra number of petals and splendid lasting qualities. A magnificent Tulip for the border or shrubbery and forms an effective contrast when planted with the light-colored Tulips. Height 28 inches	2 50	15 00	
Yellow Perfection. Light bronze-yellow, edged golden yellow, with yellow base, starred green. A large flower and very effective if planted with Darwin Tulips, Flamingo or Clara Butt. Height 24 inches	1 50	10 00	

Dutch Breeder Mixture. A choice mixture of many varieties of this type of Tulip. Magnificent combinations of colors and shades from beautifully flushed white to deep wine-red, art bronze and darkest maroon. 50 cts. per doz., $3 per 100, $25 per 1,000.

Old English COTTAGE TULIPS, MAY-FLOWERING

The Cottage Tulips, like the Darwins, flower late. Many of the varieties are used extensively for late bedding and are magnificent for this purpose. The pale primrose, deep yellow and splendid white varieties are often planted with the Darwins for effects of contrasts. The following list we feel sure contains most of the best varieties. Some varieties, like the Darwins, will flower a few days earlier than others, but on the whole the earliest is just at its best when the latest-flowering variety in our list is just beginning to show bloom. **For culture, treat the same as the Darwins.**

FIFTEEN FINE COTTAGE TULIPS

The following fifteen varieties have been taken from our general list and offered to our patrons who are desirous of growing a limited number of varieties.

	Doz.	100	1,000
Bouton d'Or (**Golden Beauty**). Deep chrome-yellow, with black anthers; splendid cup-shaped flower; grand for cutting or late forcing. Height 20 inches.	$0 40	$2 25	$20 00
Fairy Queen. Beautiful soft rosy lilac, outer petals broadly margined amber-yellow. A variety that should be included in every collection on account of its unique and lovely color. Height 20 inches	50	3 50	32 00

	Doz.	100	1,000
Doris. Soft rosy lilac, flushed silvery gray, blue base; large, egg-shaped flowers, borne on strong stems. Height 24 inches	$0 50	$3 50	$32 00
Gesneriana lutea. One of the best of the well-known Gesneriana family. A bedder of unsurpassed qualities, with perfect-shaped flowers of purest golden yellow, on strong stems holding the flowers perfectly erect. Height 24 inches	40	3 00	28 00
Gesneriana spathulata or major. The beautiful curved flowers are brilliant scarlet, with a bluish black center, on tall stems. Height 18 inches	40	2 25	20 00
Inglescombe Pink (**Salmon Queen**). Beautiful soft rosy pink, slightly flushed salmon; large, globular flower of excellent form. Adapted for borders or late forcing. Height 22 inches	40	3 00	28 00
Inglescombe Scarlet. A very charming variety of true Cottage type; intense scarlet. Should not be planted with Inglescombe Pink or Yellow, as they are fully 6 inches taller and resemble the Darwin type. Height 16 inches.	50	3 50	32 00
Inglescome Yellow. A beautiful variety. Size, form and height greatly resemble the Darwins, so much so that it is frequently called the "Yellow Darwin." Height 22 inches	80	6 50	62 00
Isabella (**Shandon Bells**). Carmine-rose, shaded creamy white; splendid forcer. A very useful variety	30	2 00	18 00
La Candeur (**Parisian White**). White, changing to silvery rose. Height 16 inches	30	2 00	18 00
Le Merveille. Very large, sweet-scented flowers. Salmon-rose, laid with orange-red. A grand border variety. Height 20 inches	30	2 00	18 00
Picotee (**Maiden's Blush**). White, margined deep rose, the color suffusing the whole flower as it ages; medium-sized flower, reflexing. A grand Tulip for the border. The sight of a large bed planted wholly to this variety is one that will not easily be forgotten. Height 20 inches	30	2 00	18 00
Primrose Beauty. Opening pale primrose, changing to cream; very shapely flower of distinct color; exquisitely sweet-scented. Excellent for borders or late forcing. Height 16 inches.	40	3 00	28 00
Striped Beauty. Silvery rose, blotched and striped dark carmine and white; large, showy flower on a graceful stem. Height 18 inches	60	4 50	40 00
The Fawn. The coloring is a unique shade of pale rosy fawn, changing to blush-rose. Height 20 inches	60	4 50	40 00

Old English COTTAGE TULIPS May-Flowering, continued

Avis Kennicott. Rich chrome-yellow, with velvety black base and anthers; long flower of immense size. One of the best of the newer varieties. Height 25 inches. **80 cts. per doz., $6.50 per 100, $63 per 1,000.**

Caledonia. Orange-scarlet, with yellow base. Its dwarf habit and its brilliant color make it very desirable for beds. Height 18 in. **30 cts. per doz., $2 per 100, $18 per 1,000.**

Elegans. Brilliant crimson, with yellow center; long flower with reflexing petals. Good for bedding and for late forcing. Height 15 inches. **40 cts. per doz., $3 per 100, $28 per 1,000.**

Elegans alba (**White Crown**). Creamy white, petals elegantly reflexed, with a narrow margin of bright carmine-rose, which adds much to the charm of this variety. Excellent for borders or late forcing. Height 20 inches. **75 cts. per doz., $5.50 per 100, $50 per 1,000.**

Fulgens. Bright crimson, with white center; flowers are long and reflexed. Height 22 inches. **40 cts. per doz., $3 per 100, $28 per 1,000.**

Gesneriana aurantiaca maculata (**Orange Beauty**). Brilliant orange-red; enormous flowers, borne on strong, stiff stems. Height 18 inches. **40 cts. per doz., $3 per 100, $28 per 1,000.**

Gesneriana ixioides. Soft primrose-yellow, with black base, contrasting well with the soft primrose-yellow of the flower. Height 22 inches. **$1.25 per doz., $9 per 100.**

Glare of the Garden. Bright crimson-red, with black center, edged yellow; large flower of brilliant color and beautiful, reflexing petals. Height 18 inches. **75 cts. per doz., $5.50 per 100, $50 per 1,000.**

Golden Crown. Pale yellow, edged crimson-red; as the flower ages it turns to orange-red; excellent for borders or late forcing. Height 16 inches. **25 cts. per doz., $1.50 per 100, $12 per 1,000.**

John Ruskin. Salmon-rose, edged soft lemon-yellow, inside deep rosy lilac; large flower of fine shape on a graceful stem. Height 16 inches. **$2 per doz., $15 per 100.**

Leghorn Bonnet (*Elegans lutea pallida*). Soft primrose-yellow; large flowers, slightly reflexed. A distinct variety that should be in every collection. Height 16 inches. **50 cts. per doz., $3.25 per 100, $30 per 1,000.**

A well-thought-out color arrangement of Darwin and Breeder Tulips, with the Cottage Tulip Picotee in the foreground

Miss Willmott. Undoubtedly one of the best of the Cottage Tulips; splendid, large, long flowers, borne on straight, stiff stems. The flowers open delicate canary-yellow, but gradually become bright yellow. Height 18 inches. **75 cts. per doz., $5.50 per 100, $50 per 1,000.**

Moonlight. Bright canary-yellow; splendid, large flower, oval in shape, outer petals slightly reflexed at the tips. An excellent yellow for combination with the Darwins. Excellent for late forcing. Height 22 inches. **$1.25 per doz., $8 per 100.**

Mrs. Moon (*Fulgens maxima lutea*). Deep golden yellow; large flowers of good substance, slightly reflexing. A famous Parisian boulevard Tulip. Height 24 inches. **80 cts. per doz., $6.50 per 100, $62 per 1,000.**

Orange King. Beautiful deep orange, shaded rose, inside deep orange-scarlet with a yellow center; sweet-scented; a globular flower of great size and brilliant coloring. Most attractive for beds or borders. Height 23 inches. **75 cts. per doz., $6 per 100, $55 per 1,000.**

Union Jack (**Distinction**). Light violet, feathered purple, with a few markings of white, very unique in coloring; large flower. Excellent for forcing or border. Height 20 inches. **$1.50 per doz., $10 per 100.**

Vitellina. Pale yellow becoming creamy white as the flower ages; large flower of beauty; sweet-scented. Excellent forcer. **50 cts. per doz., $3.50 per 100, $32 per 1,000.**

Yellow Picotee. Beautiful canary-yellow, margined deep rose. A yellow counterpart to the well-known variety Picotee. Height 20 inches. **60 cts. per doz., $4.50 per 100, $40 per 1,000.**

Superb Mixture. **A select assortment, covering almost every conceivable color and shade. Those who have not grown these Tulips, and desire a mixture for trial purpose, can depend on getting every color that obtains in this beautiful class of Tulips. 30 cts. per doz., $1.75 per 100, $15 per 1,000.**

TULIP SPECIES

Clusiana. The "Little Lady" Tulip. A lovely little variety from Asia Minor. Grows but 8 inches high. Flowers are as large as the crocus, but each bulb produces several. Outer petals cherry-red, inner petals white, with violet base. Should be planted 6 to 9 inches deep in light soils; blooms late in April. Several pots of this exquisite Tulip shown in our exhibit at the New York Flower Show this past March created quite an interest among flower-lovers. **10 cts. per doz., 60 cts. per 100, $4 per 100.**

Fosteriana. Very brilliant scarlet, with yellow and black center; flowers enormous. Extremely rare. Flowers late in April. Height 9 inches. **50 cts. each, $5 per doz., $35 per 100.**

Greigii. Flowers very large, of brilliant orange-scarlet, with a yellow-and-black center. Foliage spotted maroon; late April. Height 9 inches. **10 cts. each, $1 per doz., $8 per 100.**

Kaufmanii. Remarkably early-flowering, coming in bloom two weeks before any of the other Tulips. White inside, pink outside; large flower with broad, reflexing petals. Height 12 inches. **15 cts. each, $1.50 per doz., $12 per 100.**

Mauriana. Glowing scarlet, with a clear yellow base, a splendid Tulip from Savoy, for the border or bed. Blooms late in May, the last of all the Tulips to bloom. Height 21 inches. **5 cts. each, 50 cts. per doz., $3.50 per 100.**

Striped and Feathered May-Flowering Tulips

Rose Bybloem Tulip, Athalia

BYBLOEM AND BIZARRE TULIPS

Bybloem and Bizarre Tulips are "rectified" Breeder types. The Tulips are of an old race which has been grown in Holland and in France since the beginning of the seventeenth century, and which caused the famous Tulip craze in 1635. The Bybloems are queerly striped and feathered rose or violet on a white ground. The Bizarres have dark brown stripes and feathering on a yellow ground. The varieties offered are the newer sorts, and the flowers are larger than the older and smaller-flowering sorts. They flower about the same time as the Breeder and Darwin Tulips but do not grow quite so tall, and are seen at best advantage when planted in clumps in the herbaceous border or among evergreens and shrubs. The stems average from 18 to 23 inches in height.

ADMIRAL KINGSBERGEN. (Rose Bybloem.) Bright crimson, feathered and flamed with white; large flower, borne on a stiff stem. **$1 per doz., $7.50 per 100.**

ATHALIA. (Rose Bybloem.) White, bordered and feathered bright rose. **75 cts. per doz., $6 per 100.**

BLACK BOY. (Bizarre.) Yellow ground, feathered and flamed dark brown. **75 cts. per doz., $5 per 100.**

EMPEROR DU MAROC. (Bizarre.) Bright yellow ground, feathered and flamed dark red. **75 cts. per doz., $5 per 100.**

GLORY OF HOLLAND. (Violet Bybloem.) Pure white, feathered and flamed violet-purple. **$1.25 per doz., $9 per 100.**

LADY STANLEY. (Violet Bybloem.) White, feathered and striped dark violet **60 cts. per doz., $4.50 per 100.**

OVIDIUS. (Bizarre.) Reddish brown ground, feathered yellow; very attractive variety. **75 cts. per doz., $5 per 100.**

PRINS MAURITZ. Yellow ground, variegated dark brown. **60 cts. per doz., $4.50 per 100.**

REINE DE HOLLANDE. (Rose Bybloem.) White, feathered and flamed red; a very attractive and distinctly variegated Tulip. **$1 per doz., $7.50 per 100.**

ROMEA. (Bizarre.) Bright yellow, feathered and bordered with orange-red; a very striking variety of large size. **60 cts. per doz., $4.50 per 100.**

VONDEL. (Violet Bybloem.) White ground, striped dark violet and feathered light violet. **$1.50 per doz., $12 per 100.**

ROSE BYBLOEM TULIPS, MIXED. 40 cts. per doz., $2.75 per 100.

VIOLET BYBLOEM TULIPS, MIXED. 40 cts. per doz., $2.75 per 100.

BIZARRE TULIPS, MIXED. An excellent mixture of choice named sorts. **50c. per doz., $3.50 per 100.**

REMBRANDT TULIPS

Rembrandt Tulips are in reality "broken" forms of Darwin Tulips. Each year many of our best varieties of Darwin Tulips show a tendency to break, or become variegated. These Tulips, on account of their odd colorings and variegations, were very popular at one time, and while the modern tendency to favor self-colors is recognized generally throughout all countries, these broken forms are sometimes preferred and possess splendid decorative value. The stems average from 18 to 22 in. in height.

APOLLO. Lilac-rose and white, striped dark carmine. **50 cts. per doz., $4 per 100.**

CARACALLA. White, striped and feathered carmine-red; a very attractive variety. **$1 per doz., $7.50 per 100.**

EROS. Soft lilac, feathered dark violet; not a large but exquisite flower. **75 cts. per doz., $6 per 100.**

JULIENNE. Rose, striped and feathered carmine-purple and white. Edges of petals broadly blotched white makes splendid contrast with the rich color of the flower. **75 cts. per doz., $6 per 100.**

LA COQUETTE. Violet, flamed purple and white; not a large but an exquisite flower. **75 cts. per doz., $6 per 100.**

MARCO SPADO. White, flamed bright carmine-red; large flower. **$1.50 per doz., $10 per 100.**

SEMELE. White, heavily striped and feathered vivid rosy pink. A Tulip of exquisite coloring; large flower. **60 cts. per doz., $4.50 per 100.**

VICTOR HUGO. Brilliant carmine, feathered white; large flower. **75 cts. per doz., $6 per 100.**

REMBRANDT TULIPS, CHOICE MIXED VARIETIES. 40 cts. per doz., $3 per 100.

PARROT TULIPS

Three-Year-Old Flowering Bulbs

The petals of these Tulips have peculiarly feathered and fringed edges, and the shape of the flower, especially before it opens, resembles the neck of a parrot.

50 cts. per doz., $3 per 100

Admiral de Constantinople. Large, red flowers, tipped with orange.

Cramoisi Brillant. Deep carmine; very handsome.

Lutea major. Large; bright yellow, with crimson and green stripes.

Markgrave of Baden. Yellow, striped with scarlet and green.

Perfecta. Yellow and red, striped.

Rubra major. Blood-red; handsome.

Mixed Parrot Tulips. 40 cts. per doz., $2.50 per 100.

A collection of one each of the above-named 6 sorts for 25 cts., postpaid

Parrot Tulips

DOUBLE EARLY TULIPS

FLOWERS JUST AFTER EARLY TULIPS, IN LATE APRIL

Double Tulips are chiefly grown for their showy effects in masses, and are very lasting. Where a display of color is desired they are very satisfactory. Excellent for growing in pots or pans, but should not be forced into bloom very early.

The following list contains many of the best tested novelties, as well as all worth-while standard sorts.

Double Tulip, Murillo

		Doz.	100	1,000
Boule de Neige.	B 10. Beautiful, large, full flower of glistening white; greatly resembling a peony in form. Excellent for bedding or forcing	$0 60	$4 00	$35 00
Cherry Ripe.	C 12. Exceedingly showy and very handsome flower of cherry-red	75	5 00	45 00
Cochineal.	C 10. Rich, brilliant scarlet; the largest and one of the best double scarlets. When forcing this variety, as well as any other scarlets, care should be taken to have them come slowly, to avoid green tips	40	3 00	28 00
Couronne d'Or	**(Crown of Gold).** B 10. Large, bold flower of rich golden yellow, shaded copper. Excellent for bedding and winter forcing	40	3 00	28 00

Don Carlos. B 12. Deep, rich, glowing crimson; a flower of wonderful color and substance; the finest of its color yet offered. **85 cts. per doz., $6.50 per 100.**

		Doz.	100	1,000
El Toreador.	B 12. Bright orange-scarlet, broadly margined buff-yellow. Excellent for pots or pans	$0 60	$4 50	$40 00
Golden King.	A 12. Soft canary-yellow, shaded deeper yellow. Very fine for forcing or bedding	1 50	12 00	
Imperator Rubrorum.	B 10. Excellent scarlet for bedding and forcing. Still remains among the best of the older varieties	40	2 50	22 00
La Candeur.	C 10. Pure white; very full and large. Extensively used for bedding	30	2 00	18 00
Lord Beaconsfield.	B 12. Brilliant rosy carmine; large flowers of distinct shape. Excellent for forcing or bedding	40	3 00	28 00
Lucretia.	C 12. One of the deepest pinks; flowers of enormous size. When grown in pans and not forced too hard it is a beautiful variety	40	3 00	28 00
Matador.	C 10. Glowing scarlet, purple bloom on the outside of the petals and perfect egg-shaped flowers. It forces easily, and is excellent for cutting	40	3 00	28 00
Murillo.	C 12. Delicate rose-pink, flushed white. Fine for bedding, and excellent for forcing	$0 25	$1 75	$15 00

Queen Emma. B 12. Vivid cherry-rose, center of petals striped white, an exact counterpart of the variety Pink Beauty in Single Tulips. A very fascinating variety on account of its color. **75c. per doz., $5 per 100, $48 per 1,000.**

		Doz.	100	1,000
Safrano	**(Brimstone; Tea Rose).** B 12. This variety is a sport of Murillo; flowers open pale yellow, flushed salmon, but develop a rosy apricot in a day or so. Fine for forcing	$0 65	$4 50	$40 00
Salvator Rosa.	B 12. Beautiful deep rose, slightly flushed white. Excellent for beds, and grand for forcing	40	2 25	20 00
Schoonoord.	B 12. A beautiful, pure white sport of Murillo, with the same excellent forcing qualities. One of the best, if not the best white in Double Tulips	50	4 00	35 00
Tournesol.	B 11. A very showy Tulip; bright scarlet, with broad yellow tips and yellow base; very large, double flower. Easy forcer	40	3 00	28 00
Tournesol Yellow.	B 12. Bright golden yellow, shaded orange; very fine, large and showy flowers. One of the finest golden yellow Double Tulips. Forces well	40	3 00	28 00
Vuurbaak.	B 12. Brilliant scarlet; when fully open the flower gets an orange hue. One of the best scarlets for bedding owing to its sturdy stem	40	3 00	28 00

Double Tulip, Couronne d'Or

S. & W. Co.'s Special Mixture. A mixture consisting of 15 named varieties, blended so as to give an assortment of all possible colors and shades, all of vigorous habit and large size, uniform height and time of blooming. 25 cts. per doz., $2 per 100, $18 per 1,000.

MATCHLESS BEDDING HYACINTHS

Special named varieties in distinct shades of color, to flower at the same time

BULBS MEASURE 7 TO 8 INCHES IN CIRCUMFERENCE

The Hyacinth chosen to represent each of the following shades of color is a variety which, we have found from trials, will be best in the three essential requirements: Best in its color; stoutest stem; largest truss of bells; so our customers will know that we have avoided using such varieties that are of weak stem, and that do not support the blooms.

CULTURE

These Hyacinths should be planted from 6 to 10 inches apart, and covered with at least 4 inches of soil from the top of the bulb. For beds or borders close to the conservatory or dwelling, 6 inches will make a fine display; but where the beds are planted to be viewed from a distance, they may be planted 10 inches apart. Hyacinths planted alternately with narcissi produce a most graceful effect, and for this combination 6 inches from bulb to bulb is also a very suitable distance. It is advisable to cover, after the bulbs have been planted, with leaves or some heavy material that will prevent them from freezing or being affected by early spring frosts after they have started.

Hyacinths, as well as narcissi, should be planted by November first in this latitude, as they are the better for early planting. Tulips may be planted up to December first, weather permitting.

Delivered (by express or Parcel Post) anywhere in the United States free

	Doz.	100	1,000
Matchless Bedding Scarlet	$0 60	$4 50	$40 00
Matchless Bedding Pink	60	4 50	40 00
Matchless Bedding Light Rose	60	4 50	40 00
Matchless Bedding Blue	60	4 50	40 00
Matchless Bedding Dark Blue	60	4 50	40 00
Matchless Bedding Pure White	60	4 50	40 00
Matchless Bedding Blush-White	60	4 50	40 00
Matchless Bedding Mauve	60	4 50	40 00
Matchless Bedding Deep Yellow	60	4 50	40 00

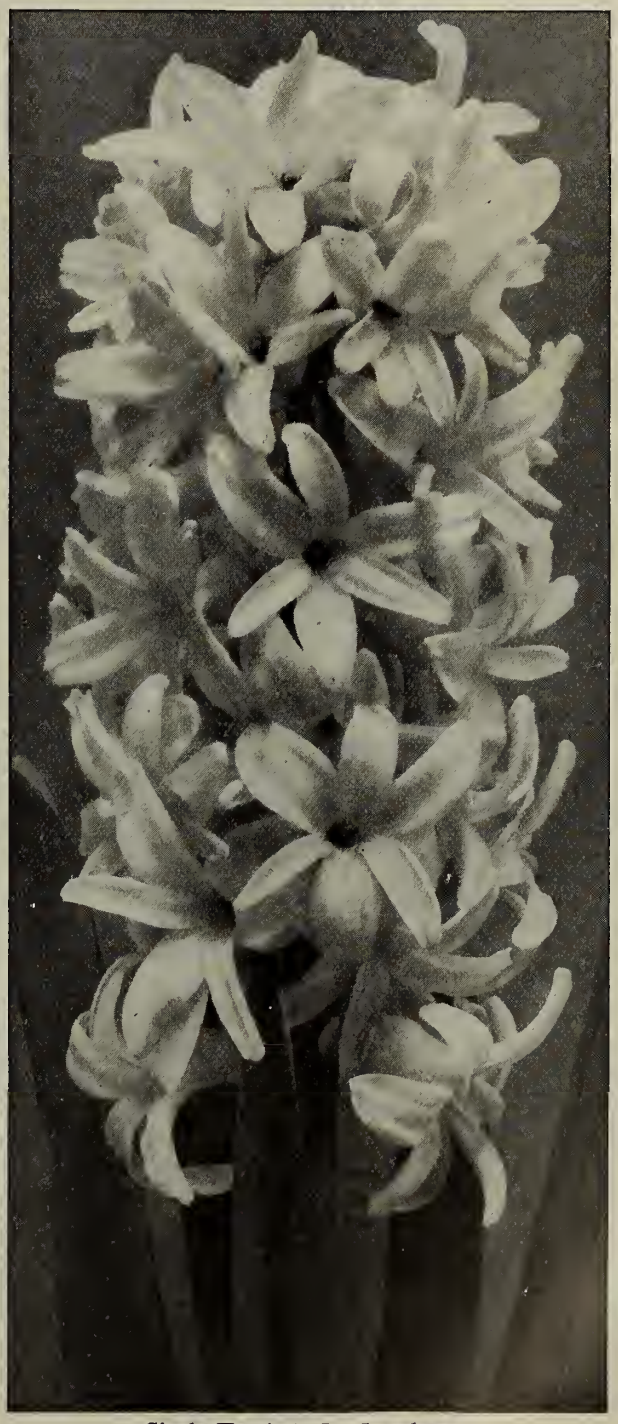
Suggestions for Effective Color Combinations

1. **Matchless Bedding Pink and Light Blue.**
2. **Matchless Bedding Light Blue and Deep Yellow.**
3. **Matchless Bedding Light Blue and Dark Blue.**
4. **Matchless Bedding Dark Blue and Deep Yellow.**

SELECTED FIRST-SIZE HYACINTHS

Any good soil will grow Hyacinths, but they do best in a rich, light one. **Our Matchless Bedding, Selected First-Size** and **Named Exhibition Hyacinths** may be planted singly in a 5-inch pot, or four bulbs of one variety to a 7- or 8-inch bulb-pan, a piece of broken pot placed across the hole in the bottom, then a layer of moss about an inch deep to provide proper drainage. Place the bulb in the pot so as to be about half an inch below the surface of the soil. Remove all the offsets from the bulb before potting, and have the soil come up to within an inch from the top of the pot to permit watering when bulbs are growing. Bulbs so potted may be "plunged" out in the open garden and covered with about 6 inches of gravel or ashes. This will admit of their getting the proper amount of moisture and still prevent damage by frost. See that there is a firm bed of ashes beneath the pots, so as to prevent the entrance of worms. They may also be put in a coldframe, or cool cellar, and kept well watered. Should be kept out about **twelve weeks,** except Roman Hyacinths, which take only about **nine weeks** to develop **fibrous roots,** which are essential to the proper development of large spikes of bloom. A very frequent mistake is made in bringing the bulbs into the light too soon, resulting in a failure to bloom, or else weak spikes. After lifting, see that the temperature for the first two weeks is quite low (50 degrees) until the top-growth has nicely developed, when they may be forced according to one's needs. By keeping near to the glass so as to avoid becoming drawn, with a liberal supply of air, strong spikes of bloom may be had. **Avoid,** under all circumstances, **direct bottom heat.**

The figures, 1, 2, 3, 4, indicate relative time of blooming—1 being early; 4 the latest.



Single Hyacinth, La Grandesse

SINGLE PINK, ROSE AND RED

	Each	Doz.	100
Garibaldi. 1. Deep crimson-red; large spike. Early forcer	$0 15	$1 50	$10 50
Gertrude. 3. Dark pink; compact spike. Fine for pots	15	1 50	10 50
Gigantea. 2. Light pink; large truss. Fine for pots.	15	1 50	10 50
Jacques. 3. Pale rose-pink; large truss and bells. Grand for pots	20	2 00	12 00
Lady Derby. 1. Soft rose; large truss and bells. Splendid for pot culture	20	2 00	12 00
Moreno. 1. Bright rose; heavy truss; large bells	15	1 50	10 50
Robert Steiger. 2. Deep red. Excellent for pot culture	15	1 25	9 00
Roi des Belges. 1. Clear rosy carmine; medium-sized but compact truss	15	1 25	9 00

SINGLE BLUE, PURPLE AND VIOLET

Czar Peter. 2. Light lavender-blue; splendid spike, with large, waxy bells	20	2 00	12 00
Enchantress. 2. Soft sky-blue, tinted lilac; well formed truss of large bells	20	2 00	12 00
Grand Maitre. 2. Rich lavender-blue; grand flower; large bells and truss	15	1 50	10 50
Ivanhoe. 2. Rich violet-blue. Fine for pots	20	2 00	12 00
King of the Blues. 3. Rich, dark blue; splendid spike and bells. Fine for late forcing	15	1 50	10 50
Lord Balfour. 1. Lilac-rose, tinged dark violet, a distinct color; broad spike	20	2 00	12 00
Marie. 3. Rich, dark blue; broad spike, large bells.	15	1 50	10 50
Perle Brillant. 1. Light lavender-blue, a very handsome sort. Fine for pots and early forcing	20	2 00	12 00
Potgeiter. 2. Pale lavender-blue; fine spike of large bells	15	1 50	10 50
Schotel. 1. Soft blue, shaded lilac; fine, large spike and bells	15	1 50	10 50

SINGLE WHITE AND BLUSH

Arentine Arendsen. 1. Very early white for forcing. Strong spike of wide-open bells	20	2 00	12 00
General Vetter. 2. Blush-tinted bells; long, well-formed spike	20	2 00	12 00
La Franchise. 2. Creamy white; large spike and bells	15	1 50	10 50
La Grandesse. 1. Pure white; large bells, compact truss	20	2 00	12 00
L'Innocence. 2. Pure white; splendid truss	15	1 50	10 50
Madame Van der Hoop. 2. Large, white bells	15	1 50	10 50

SINGLE YELLOW AND ORANGE

Buff Beauty. 2. Pale buff-yellow; fine spike	15	1 50	10 50
Marchioness of Lorne. 3. Striped creamy orange, distinct	20	2 00	12 00
Yellow Hammer. 3. Rich yellow; large truss	15	1 50	10 50

TOP-ROOT EXHIBITION HYACINTHS

Every year our growers prepare to select the finest grade of Hyacinths for us for exhibition. These bulbs are of maximum size, and fully aged for this purpose. The varieties listed below are grown especially for us, and intending exhibitors at the International Flower Show next spring will be interested in our selection of varieties which we believe, when grown for exhibition, should capture First Premiums. The Hyacinth enthusiast who is interested in novelty varieties will also find this list valuable.

City of Haarlem. Undoubtedly the finest yellow for exhibition. Soft Naples yellow, shaded deeper. **30 cts. each, $3 per doz., $20 per 100.**

Correggio. One of the finest white varieties for March or April exhibition. The truss is less compact than La Grandesse, but the bells are the same pure white, but larger. **30 cts. per each, $3 per doz., $20 per 100.**

Daylight. A unique shade of primrose-yellow, shaded salmon; loose truss of large, fleshy bells. **25 cts. each, $2.50 per doz., $18 per 100.**

Electra. An immense, pyramidal truss of pale blue; a gem among the pale blue sorts. **30 cts. each, $3 per doz., $20 per 100.**

Enchantress. A well-formed truss of large bells; beautiful, soft light blue, tinted lilac. **30 cts. each, $3 per doz., $20 per 100.**

General Van der Heyden. A unique shade of lilac, tinged dark lavender-blue; excellent truss of large, shiny bells. **30 cts. each, $3 per doz., $20 per 100.**

Grand Maitre. A splendid shade of bright lavender-blue, darker than Enchantress and Electra. Excellent for exhibition. **25 cts. each, $2.50 per doz., $18 per 100.**

Ivanhoe. Dark violet-blue, similar in color to King of the Blues, but brighter in color. **30 cts. each, $3 per doz., $20 per 100.**

Jacques. A variety that does well for exhibition on account of its sturdy spike and its soft coral-pink color. **25 cts. each, $2.50 per doz., $18 per 100.**

King of the Blues. A dark shade of blue; a wonderful truss of compact habit. One of the best of the dark sorts for late March or April exhibition. **25 cts. each, $2.50 per doz., $18 per 100.**

Lady Derby. Pale salmon-pink; strong spike of large, waxy bells. **25 cts. each, $2.50 per doz., $18 per 100.**

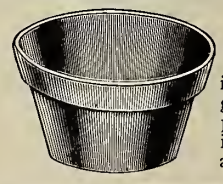
La Grandesse. A splendid companion to Correggio. The spike is more compact, but the bells are the same pure white color. **25 cts. each, $2.50 per doz., $18 per 100.**

La Victoire. A gem of the first water for exhibition. The color is a brilliant scarlet-red, but paler in color when forced; grand spike. **30 cts. each, $3 per doz., $20 per 100.**

Lord Balfour. A unique shade of lilac-rose, tinged dark violet, a distinct color; broad spikes of big, waxy bells make a grand sight. **30 cts. each, $3 per doz., $20 per 100.**

Menelik. The darkest blue in our list, the best of the so-called "blacks." **30 cts. each, $3 per doz., $20 per 100.**

Queen of the Pinks. A very lively shade of bright pink; immense, well-formed, compact spike. A variety that must be gently forced in order to perfect the spike. **35 cts. each, $3.50 per doz., $25 per 100.**



AZALEA-POTS

These pots are better adapted for growing Hyacinths for exhibition than those generally used. Being deeper than bulb-pans, they permit better root growth and insure better spikes of bloom. For sizes and prices see page 50.

A display of Exhibition Hyacinths and Giant-flowering Crocuses

Miniature Hyacinths

French Roman Hyacinths

French Roman Hyacinths are among the earliest bulbs to be had in flower. The bulbs arrive from France late in August, and, like all bulbs grown in the south of France, they may be had in flower from November all through the winter months, if potted up in September and at intervals of every two weeks. They are much prized for pots or cutting on account of their graceful appearance and delicate fragrance. The bulbs are about the same size as the Miniature Dutch Hyacinths offered on this page, and may be planted six or seven to a 5- or 6-inch pot, or ten to twelve bulbs to an 8- or 9-inch bulb-pan. The flowers are smaller than those of the Dutch Hyacinth, and are borne in great profusion, the larger bulbs frequently having three to five graceful spikes of bloom. Their ease of culture and earliness of bloom suggest their use. The white variety is the most reliable. They are not hardy in our northern climate, and should not be planted outdoors. The general culture given for Hyacinths on page 13 is suggested.

White.—	Doz.	100	1,000
12 to 15 cm	$0 60	$4 50	$40 00
13 to 15 cm	75	5 50	50 00
15 cm. (Jumbo)	1 00	7 00	65 00
Single Rose, 12 to 15 cm.	40	3 25	30 00
Single Blue, 12 to 15 cm.	40	3 25	30 00
Single Yellow, 12 to 15 cm.	75	5 00	45 00
Double Rose, 12 to 15 cm.	50	3 75	32 50
White Italian, 12 to 15 cm.	40	3 25	30 00

Our patrons desiring Hyacinths for culture in glasses are advised to select varieties from page 13. Hyacinth Glasses will be found listed on page 56.

Miniature Hyacinths

(DUTCH ROMANS)

The following method of growing Hyacinths for winter-flowering in the house has given the most satisfactory results. A number of florists use it for creating something new in the line of an Easter display, with the result that there is always a much greater demand than supply, owing to the beautiful display the Hyacinths in pans make. The secret of acquiring success is simply the following: Plant only one kind in a pan, in order to have them all bloom at once and to have them all the same shade. The following varieties are the best sorts. By planting 10 to 12 bulbs of any one variety mentioned, in a pan 8 to 9 inches in diameter, and following the directions for planting in pots, the most satisfactory results will be obtained. In ordering bulbs for this purpose, be sure to mention Miniature Hyacinths.

Gertrude. Fine pink.

Roi des Belges. Bright red.

Cardinal Wiseman. Rosy carmine.

Gigantea. Pale pink.

L'Innocence. Pure white.

La Grandesse. Pure white; large spike.

Grandeur a Merveille. Blush-white.

Baroness Van Thuyll. Snow-white.

Grand Maitre. Bright blue.

King of the Blues. Dark blue.

Queen of the Blues. Porcelain-blue; extra fine.

Price of any of above named varieties, 50 cts. per doz., by mail, postpaid; or $3 per 100 by express, prepaid.

French Roman Hyacinths

NARCISSI or DAFFODILS

No garden would be complete without the Narcissus or Daffodil. The innumerable positions in the garden in which their use may be availed of is responsible for their popularity. It is not only for garden culture that they are largely used, but many of the varieties are extensively grown in pots or pans for indoor decoration during late winter months. Some varieties in our list may be forced in bloom as early as January. Their simple beauty of form, dignity of habit, elegance of bloom and ease of culture, accounts for the new interest amounting to enthusiasm of flower-lovers all over Europe. Each year we are greeted with a profusion of novelties, many of which, on account of the high prices, are not available for immediate use. Our list, which is quite replete with many of the novelties, all of which have been favorably commented on in our Exhibit at the International Flower Show this past spring, is worthy of a trial. Whether you intend to purchase varieties for outdoor or indoor culture, for cutting or for exhibition, the varieties offered will be found quite adequate.

All the varieties of Narcissi or Daffodils offered in our catalogue, with the exception of the Polyanthus Narcissus and such other few sorts as are especially noted, are perfectly hardy, and will continue to flower outdoors each year if given a congenial location and not disturbed. Where they are used for bedding, and must be lifted, it is wise to permit bulbs to remain after flowering until the foliage turns brown down to the ground, then lifted, and the earth shaken from the bulbs; they should be stored in a cool, dry place. Narcissi, like hyacinths, should be planted by early November, and should not be allowed to remain out of the ground as long as tulips, which may be planted up to hard frost.

CULTURE.—Owing to the various sizes of the bulbs, it is not advisable to state the exact depth to plant, but the simple rule of covering the bulb one and a half times its own depth, and making the distance between the bulbs 3 to 4 inches for smaller sorts and 5 to 6 inches for the larger ones, is a good one. For greenhouse or window-garden culture treat them the same as hyacinths, except that three or more bulbs of one variety should be planted in a pot, and not single specimens.

Where a succession of blooms is desired for outdoors as well as indoors, we have arranged the following code: A, first early; B, second early; C, midseason; D, late; E, very late.

NOTE.—*In describing Daffodils, Narcissi, etc., we have referred to the "perianth" and "trumpet," "crown" or cup." The "perianth" is the surrounding row of petals or wings, and the other terms apply to the central funnel-like tube.*

Giant Trumpet Varieties, Including New and Rare Sorts

The flowers of the Giant Trumpet varieties are of large size; the "perianth," or wing-like petals, according to the variety, measure from 2 to 4 inches across, and the "trumpets," or central funnel-like tubes, vary from 3 to 4 inches in length. Flowers are borne on strong, stiff stems, which vary in height from 12 to 18 inches, according to the variety.

Albicans. B. Creamy white perianth, trumpet silvery white, slightly flushed primrose, elegantly recurved at the brim. Height 12 inches. **5 cts. each, 50 cts. per doz., $3 per 100, $25 per 1,000.**

Various Narcissi

Cornelia. B. A uniform soft yellow, with a broad, smooth perianth and large, well-expanded trumpet. Splendid exhibition sort. Height 18 inches. **40 cts. each, $4 per doz., $30 per 100.**

Duke of Bedford. B. White perianth, with loose, spreading petals and long, deep yellow trumpet well frilled at the mouth. The marked contrast in color between the deep trumpet and glistening white perianth is very effective. A splendid exhibition sort. Height 16 inches. **$1 each, $10 per doz., $75 per 100.**

Emperor. C. Perianth deep primrose-yellow, broad at base, trumpet rich yellow; a very large flower of remarkable substance. Excellent for naturalizing or forcing. Height 18 inches.

	Doz.	100	1,000
Jumbo bulbs	$0 75	$5 00	$40 00
Mammoth bulbs	50	3 25	30 00
First-size, round bulbs	40	2 50	20 00

Empress. C. White perianth of great substance; trumpet rich chrome-yellow. Very showy for the border or for naturalizing. Does equally well forced. Height 18 inches.

	Doz.	100	1,000
Jumbo bulbs	$0 75	$5 00	$40 00
Mammoth bulbs	50	3 25	30 00
First size, round bulbs	40	2 50	20 00

Glory of Leyden. C. Perianth pale yellow, broad and spreading, very long trumpet of golden yellow; enormous flower of great vigor and substance. An especially fine variety for borders and excellent for pot culture. Should not be forced hard. Must be planted early. Height 15 inches. **15 cts. each, $1.50 per doz., $12 per 100.**

Glory of Noordwijk. B. One of the best and most attractive of the Bicolors; perianth sulphur-white, trumpet chrome-yellow, very long and elegantly reflexed at the brim; a flower of good size and great substance. Grand for pots or cutting. Height 14 inches. **40 cts. each, $4 per doz., $30 per 100.**

Golden Spur. A. One of the grandest, with extra-large, bold, rich yellow flowers; foliage very broad and striking. It is of unusually robust habit and unsurpassed for garden, pots or forcing. Early and extremely free-flowering. Height, 18 inches.

	Doz.	100	1,000
Jumbo bulbs	$0 75	$5 00	$40 00
Mammoth bulbs	50	3 25	30 00
First-size, round bulbs	35	2 00	18 00

Golden Spur (French-Grown.) A. This type of Golden Spur is frequently purchased by growers desiring a very early forcing variety, and is in favor with a great many early bulb forcers. Should not be bought for garden culture. Bulbs are round, single-nosed, extra selected. If potted or "flatted" early, may be had in flower for Christmas. **60 cts. per doz., $4 per 100, $35 per 1,000.**

Grace Darling. B. Gracefully twisted white perianth, trumpet cream, passing into white; an elegantly formed flower, excellent for border planting or for forcing A variety that has been much admired. Height 18 inches. **20 cts. each, $2 per doz., $15 per 100.**

GIANT TRUMPET NARCISSI, continued

Henry Irving. A. Perianth clear yellow, broad and spreading, deep yellow trumpet, large wide at the mouth; splendid; early. For forcing or the border. Height 15 inches. **5 cts. each, 40 cts. per doz., $3 per 100, $25 per 1,000.**

Horsfieldii. Discarded.—Mrs. Walter T. Ware recommended instead.

King Alfred. C. A king among the new varieties, one that responds splendidly to forcing and one that you should grow a few of. For pans or pots for exhibition, its size, general vigor and depth of color put it in a distinct class of the **Finest Giant Golden Yellow Narcissi.** Wherever this Narcissus has been exhibited it has caused a sensation. Perianth often measures 4 inches across, trumpet fully 2 inches. **50 cts. each, $5 per doz., $40 per 100.**

Mme. de Graaff. C. Pure white perianth, trumpet soft primrose, passing into white, well rolled back at the brim. The best white for exhibition, or growing in pots or pans for decoration. Bulbs should be removed from containers immediately upon receipt and planted; if permitted to remain will quickly decay. Height 15 inches. **15 cts. each, $1.75 per doz., $12 per 100.**

Mrs. Thompson. B. Creamy white perianth, pale lemon trumpet, passing into white, elegantly frilled; one of the best growers among white Trumpets, and a free bloomer. Fine for the border and for early forcing. Height 15 inches. **5 cts. each, 50 cts. per doz., $3.50 per 100, $30 per 1,000.**

Mrs. Walter T. Ware. A. White perianth, deep golden yellow trumpet, well expanded at the brim. Earlier for forcing than Victoria and equally good for outside. Height 16 inches. **10 cts. each, 60 cts. per doz., $4.50 per 100, $40 per 1,000.**

Obvallaris (The Tenby Daffodil). A. A deep yellow self-color; broad, round petals, with rather short trumpet; very distinct. Fine for borders and excellent when grown in pots. Height 12 inches. **5 cts. each, 40 cts. per doz., $3 per 100, $25 per 1,000.**

Olympia. B. Perianth light chrome-yellow, trumpet deep chrome-yellow; of huge dimensions. Splendid exhibition sort; a variety in the same class as King Alfred; of wonderful constitution and size. Height 15 inches. **45 cts. each, $4.50 per doz., $35 per 100.**

Princeps Maximus. A. Very early. This is one of the most popular winter-flowering and forcing varieties grown. Flowers large; perianth sulphur-yellow; immense rich yellow trumpet. Height 15 inches. **Mother bulbs, 40 cts. per doz., $2.50 per 100, $20 per 1,000.**

Queen of Spain. C. A graceful and quite a distinct variety of the Triandrus type; trumpet of uniform soft yellow, with a very reflexed perianth, making the flower very dainty and unique-looking. Excellent for pots, borders and naturalizing in woodland. Height 12 inches. **10 cts. each, $1 per doz., $7.50 per 100.**

Trumpet Major. A. Flower large and almost of a uniform deep golden. Hightly prized as an early forcing sort and largely planted for outside bedding. Height 16 inches.

	Each	Doz.	100	1,000
Dutch-grown	$0 05	$0 30	$2 00	$15 00
French-grown (for forcing only)	05	40	3 00	20 00

Vanilla. C. This is a grand, tall-growing and very handsome variety, having a fine, bold trumpet of deep yellow, with a paler perianth, and possessing the added charm of a most pleasing and delicate odor. It flowers the same time as Emperor, and is a good variety for forcing. Height 20 inches. **15 cts. each, $1.50 per doz., $10 per 100.**

Van Waveren's Giant. A. A flower of gigantic size, the very largest Trumpet in cultivation. Broad primrose perianth, bright yellow trumpet, with very large, open mouth, flanged at the brim. Excellent for exhibition. Height 18 inches. **75 cts. each, $8 per doz., $65 per 100.**

Emperor Narcissi

VICTORIA B

A Bicolor famous for its large and durable flowers which stand boldly erect; broad perianth of creamy white; large, broad, fluted trumpet of rich yellow. A strong grower, with massive flowers. Fine for forcing, the flowers lasting in excellent condition long after being cut. Height 16 inches.

	Doz.	100	1,000
Jumbo bulbs	$0 75	$5 00	$40 00
Mother bulbs	50	3 25	30 00
First-size, round bulbs	40	2 50	20 00

William Goldring. C. White perianth, drooping over a long trumpet; trumpet soft primrose passing to white. A very graceful flower whose drooping habit has brought it the common name of Swan's Neck. An extremely satisfactory variety for border or pot culture. Height 15 inches. **5 cts. each, 40 cts. per doz., $3 per 100, $25 per 1,000.**

Giant Trumpets in Mixture. **For naturalizing. Each year we import large quantities of these bulbs for naturalizing, and frequently, at the end of the season, prepare a mixture of some of the best varieties which we have in surplus for this purpose, which we offer at the very low price of $1.25 per 100, $12 per 1,000, $50 for 5,000.**

Medium Trumpet Narcissi, or Daffodils

This is also a very popular type or rather types of the Narcissus or Daffodil family. Splendid for garden culture, in pots or pans, or in flats, for cut-flowers.

The following varieties are grouped in some catalogues under the headings, Barrii, Incomparabilis and Leedsii types.

BARRII. Daffodils belonging to this group are crosses between Yellow Giant Trumpet and the Poet's Narcissus. The crown usually is not over one-third the length of the perianth petals.

INCOMPARABILIS. The Incomparabilis varieties are also crosses between the Yellow Giant Trumpet and the Poet's Narcissus, but the crowns are larger than those of the Barrii group, sometimes being three-fourths of the length of the perianth petals. The color of the perianth is either yellow or white.

LEEDSII. These are crosses between White Giant Trumpet and the Poet's Narcissus. The crowns are as large as those of the Barrii and Incomparabilis groups, but the perianth petals are always white, and the crowns are mostly white or light yellow.

Albatross. **(Barrii.)** C. Large, flat, white perianth, cup pale citron, deep yellow-edged, and elegantly frilled at the brim. Splendid forcing and garden variety. Height 20 inches. **15 cts. each, $1.50 per doz., $10 per 100.**

Ariadne. **(Leedsii.)** C. Perianth ivory-white, cup pale amber-yellow, passing to white; broad, widely expanding, and most regularly and beautifully frilled; a good-sized flower of exquisite beauty, lasting long in bloom. Splendid for border planting and excellent for pots. Height 16 inches. **15 cts. each, $1.50 per doz., $10 per 100, $95 per 1,000.**

Autocrat. **(Incomparabilis.)** C. Clear golden yellow; broad perianth tending to reflex, cup widely expanded at the mouth. A very handsome variety for the border or pots. Height 20 inches. **Selected bulbs, 5 cts. each, 50 cts. per doz., $3 per 100, $25 per 1,000.**

Barrii Conspicuus. C. Large, broad-spreading perianth of soft yellow; short, yellow cup, edged bright orange-scarlet. A fine, large flower; one of the handsomest of all. Splendid for midseason forcing, and good for any position in the garden. Height 21 inches. **Selected bulbs, 5 cts. each, 35 cts. per doz., $2.50 per 100, $18 per 1,000.**

Beauty. **(Incomparabilis.)** C. Perianth pale sulphur-yellow; cup deep yellow, elegantly margined orange-scarlet. Striking for the border and equally fine for pot culture. Height 17 inches. **10c. each, 75c. per doz., $5 per 100, $40 per 1,000.**

Cynosure. **(Incomparabilis.)** C. Large; pale primrose perianth passing into white; yellow cup, stained orange; a cheap, showy variety for the border or naturalizing. Height 17 inches. **Selected bulbs, 5 cts. each, 30 cts. per doz., $2 per 100, $15 per 1,000.**

Medium Trumpet Narcissus, Lucifer

Firebrand. **(Barrii.)** D. Perianth creamy white, shaded pale yellow at the base; cup of most intense fiery red, prettily fluted; a variety that is remarkable for its brilliance of color. Excellent for shrubbery borders or positions that are shaded, where the intensity of the color is well preserved. May be grown to excellent advantage in pots if forced gently. Height 17 inches. **10 cts. each, $1 per doz., $7 per 100, $65 per 1,000.**

Frank Miles. **(Incomparabilis.)** C. Perianth pale yellow, elegantly twisted; cup bright yellow; large, handsome flower. Appears to excellent advantage planted in clumps in the border; also grown extensively for cutting; very good for pot culture. Height 21 inches. **5 cts. each, 50 cts. per doz., $3.50 per 100, $30 per 1,000.**

Gloria Mundi. **(Incomparabilis.)** C. Perianth primrose-yellow, with broad petals; crown dark yellow at base, deepening to brilliant orange-red at the brim. A flower of splendid proportion and excellent for exhibition. Height 18 inches. **25 cts. each, $2.50 per doz., $18 per 100.**

Katherine Spurrell. **(Leedsii.)** D. A grand new variety; flowers of large size, beautiful form and splendid substance; broad, overlapping perianth of snow-white and a delicate canary-colored crown. An especially fine cut-flower. Height 18 inches. **Selected bulbs, 5 cts. each, 50 cts. per doz., $3.50 per 100, $32 per 1,000.**

Lady Godiva. **(Barrii.)** C. Large, spreading perianth of pure white, cup large, pale yellow, edged orange-scarlet. A splendid variety in every way; excellent if planted out in combination with the variety Conspicuus. Height 18 inches. **5 cts. each, 50 cts. per doz., $3.50 per 100, $32 per 1,000.**

Lucifer. **(Incomparabilis.)** C. Perianth sulphur-white, with long, well-rounded petals, rather star-like in effect; cup chrome-yellow, edged bright orange. A bold, showy flower for outdoors, holding its color well, and splendid for pot culture. Height 18 inches. **25 cts. each, $2.50 per doz., $18 per 100.**

Mrs. Langtry. **(Leedsii.)** D. A remarkably free-flowering variety, each bulb usually producing several flowers; broad, white perianth, and white cup opening pale primrose. On account of its low price it is largely used for naturalizing. It is good, also, for potting, as it blooms so profusely in the house in winter. Height 16 inches. **Selected bulbs, 5 cts. each, 30 cts. per doz., $2 per 100, $15 per 1,000.**

Queen Bess. **(Incomparabilis.)** A. Perianth white; large, well-expanded cup of light yellow. An early variety of value for pot culture, and good for bedding. Much better and earlier than Stella, which we have decided to discard from our list. Height 15 inches. **Selected bulbs, 5 cts. each, 40 cts. per doz., $2.50 per 100, $20 per 1,000.**

Seagull. **(Barrii.)** C. Broad perianth of the purest white; cup pale lemon-yellow; an exquisitely beautiful flower perhaps the very loveliest of this class. Equally fine for bedding or forcing. Height 17 inches. **10 cts. each, $1 per doz., $7 per 100, $65 per 1,000.**

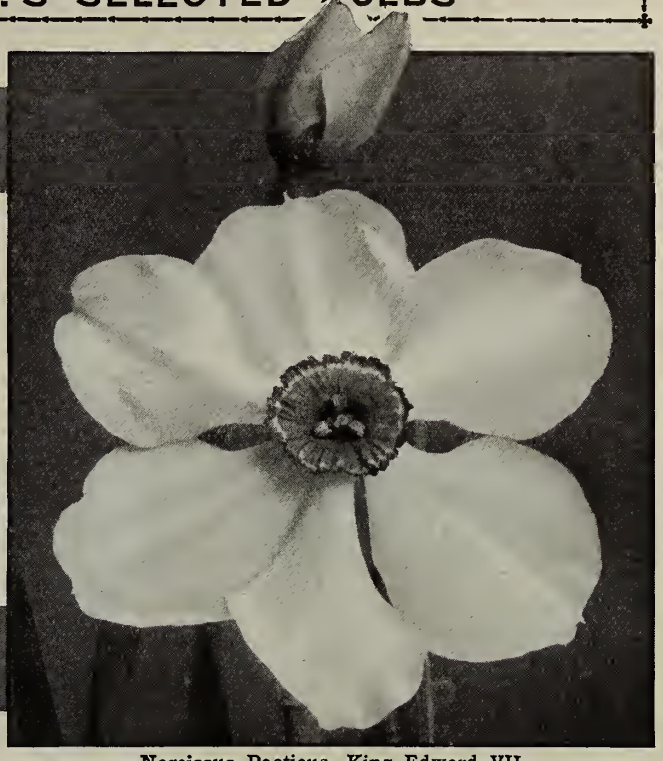
Sir Watkin. **(Incomparabilis.)** C. Perianth primrose-yellow; large and well-formed yellow cup, tinged deep yellow. A giant among the Medium Trumpet sorts. A grand flower of wonderful substance for garden culture or pots, this variety frequently has flowers 5 inches across, and its splendid proportion and ease of culture cause it to be one of the most popular of the older varieties. Height 18 inches.

	Each	Doz.	100	1,000
Mother bulbs	$0 07	$0 50	$3 50	$30 00
First-size, round bulbs	05	40	2 50	20 00

White Lady. **(Leedsii.)** C. Broad, white perianth of perfect form; small cup of pale canary, beautifully crinkled. A new sort that is conceded to be one of the best. Fine for outdoor planting, making a splendid cut-flower; good for pot-culture also. Height 20 inches. **15 cts. each, $1.50 per doz., $10 per 100, $90 per 1,000.**

Medium Trumpets in Mixture. **For naturalizing. Our mixture of these Medium Trumpets for natural plantations contains a great many varieties which we do not list under separate headings, and are excellent for this purpose. $1.25 per 100, $10 per 1,000, $40 for 5,000.**

Narcissus Poetaz, Aspasia



Narcissus Poeticus, King Edward VII

Narcissus Poetaz

THE HARDY CLUSTER-FLOWERED POET'S NARCISSUS

These new hybrids between Poeticus and Polyanthus are hardy, healthy, strong growers, some of the varieties attaining the height of 2 feet. The Poeticus-like flowers are borne in clusters like those of the Polyanthus type. As a border, particularly when edged with grape hyacinth, Heavenly Blue, they prove very effective and will become permanent. For indoor culture this type of Narcissus is an easy grower; eight to ten bulbs planted in an 8-inch bulb-pan, and treated in the manner recommended for hyacinths, is suggested.

Aspasia. C. Perianth pure white, with soft yellow eye; three or four flowers on a stem. A splendid variety for outdoor planting; very bright in color. Height 18 inches. **50 cts. per doz., $3.50 per 100, $32 per 1,000.**

Elvira. C. A large flower of remarkable substance; perianth pure white with a yellow eye; three or four flowers, two or three stems to a bulb; strong grower and free-flowering. Splendid for pots, pans or garden culture. Height 24 inches. **40 cts. per doz., $3 per 100, $28 per 1,000.**

Irene. D. Yellow perianth, with deep golden yellow cup; broad flowers, borne seven or eight on a stem; three stems to a bulb. The largest yellow. **70 cts. per doz., $5 per 100, $45 per 1,000.**

Triumph. A. A magnificent new variety of the Poetaz type. Broad, pure white perianth, fluted cup of pure yellow. The largest flowers of this section; three or four borne on stems 18 inches high. Excellent for pots, pans or garden culture. **$1.25 per doz., $7.50 per 100, $70 per 1,000.**

The Poet's Narcissi

Narcissus Poeticus

This class of Narcissus, instead of having a trumpet or crown, has a small, wide-mouthed cup. They are very hardy, and are used in large numbers for naturalizing, their simplicity of form and delightful fragrance making them highly prized. The varieties Cassandra, Poeticus, King Edward VII and Ornatus are used with excellent success for growing indoors in pots or pans, or gently forced in bloom for cutting purposes.

Cassandra. C. Broad, wide-spreading perianth of snowy white; very small, flat cup, deeply rimmed dark red; a flower of perfect shape and thick substance. A tall and vigorous grower. A fine, if not the finest, Poet's Narcissus. Excellent for pot culture. Height 18 inches. **20 cts. each, $2 per doz., $12 per 100.**

Glory. C. Very large, snow-white perianth, with well-defined midrib through the overlapping petals, cup margined red. Splendid for pot culture. **10 cts. each, $1 per doz., $7 per 100.**

King Edward VII. C. Round, white perianth, cup light yellow, margined deep red. A vigorous grower, excellent for pot culture. Height 15 inches. **60 cts. per doz., $4.50 per 100, $35 per 1,000.**

Poeticus ornatus (Improved Poeticus). C. Grand flower for cutting. Larger and more symmetrical than the old variety and considerably earlier. Pure white flowers, saffron cup, tinged rosy scarlet. Magnificent cut-flower. Height 15 inches. **35 cts. per doz., $2 per 100, $15 per 1,000.**

Poeticus (Pheasant's Eye). E. The original late-flowering Pheasant's Eye variety so popular for gardens and naturalizing; pure white flowers with orange cup, edged with red. Height 15 inches. **25 cts. per doz., $1.25 per 100, $9 per 1,000.**

Sweet-Scented Jonquils

These are very much prized for their deliciously scented golden flowers; perfectly hardy in gardens or naturalized, also admirably adapted to indoor culture in pots of soil.

We frequently receive orders for Jonquils when the Giant Trumpet Daffodils are desired. We ask our patrons to select varietal names in order to avoid the confusion caused thereby. The Jonquils listed below belong to a distinct type of the Narcissus family. The foliage is rush-leaved, and the flowers are borne in clusters of four or five on each stem, and should not be confused with the Giant and Medium Trumpet Daffodils in our list. We have decided to discard the common Single and Double Jonquils in favor of the following sorts.

Campernelle. B. Large, yellow flowers, four to six on a stem. Splendid for forcing. 18 inches. **25c. per doz., $1.50 per 100, $12 per 1,000.**

Rugulosus. C. Self-colored rich yellow; very fragrant; three or four flowers on a stem; a great improvement on the preceding variety. Fine for borders or naturalizing, and excellent for pot culture. Height 17 inches. **40 cts. per doz., $3 per 100, $25 per 1,000.**

Rugulosus, Double. The double form of the large-flowering Campernelle Jonquil. Large, double, yellow flowers; very fragrant and much superior to the common Double Jonquil. Height 20 inches. **60 cts. per doz., $4.50 per 100, $40 per 1,000.**

Polyanthus Narcissi

Bazelmann major. Large flowers in immense clusters; broad, pure white perianth, large, dark yellow cup. One of the finest Polyanthus Narcissi in cultivation. **10 cts. each, 85 cts. per doz., $6.50 per 100, $60 per 1,000.**

Grand Monarque. Purest white flowers of the largest size, with canary-yellow cups; immense trusses of bloom. **Selected bulbs, 5 cts. each, 45 cts. per doz., $3.50 per 100, $30 per 1,000.**

Grand Soleil d'Or. Rich yellow, reddish orange cup. Excellent for bedding. **5 cts. each, 40 cts. per doz., $3 per 100, $25 per 1,000.**

Lord Canning. Clusters of large, golden yellow flowers, with orange cups. **10 cts. each, 75 cts. per doz., $6 per 100, $50 per 1,000.**

Mont Cenis. Broad, round, overlapping petals of white, and large rich yellow cup; of compact, sturdy growth; immense clusters of bloom. **10 cts. each, 75 cts. per doz., $5 per 100, $45 per 1,000.**

White Pearl. Extra-fine clusters of satiny white flowers, citron-colored cups; profuse bloomer. **10 cts. each, 75 cts. per doz., $5 per 100, $45 per 1,000.**

Varieties Suitable for Growing in Water

GIANT PAPER-WHITE GRANDIFLORA

This large-flowering Paper-White Narcissus is such an improvement over the ordinary Paper-White that we have decided to discontinue the sale of the latter. It can be had in bloom from Christmas to Easter. Plant bulbs in shallow boxes or pots so that they almost touch each other, and store in a cool cellar or shed until rooted. By bringing into the light during early November they may be had in bloom for Christmas. Excellent results can be obtained by growing in bowls of water and pebbles or moss, the same as the Chinese Sacred Lily. Prepaid by mail or express to your home.

	Each	Doz.	100	1,000
Jumbo bulbs	$0 10	$0 75	$3 50	$30 00
First Size	05	50	2 50	20 00

DOUBLE ROMAN (Double Sacred Lily)

May be grown in the same manner as the Chinese Sacred Lily. Produces abundance of double flowers; white, shaded beautiful yellow; fragrant and lasting. Can be easily brought into bloom for Christmas. Prepaid by mail or express to your home. **5 cts. each, 50 cts. per doz., $3 per 100.**

GLASS BOWLS. For three bulbs of Paper-White Grandiflora Narcissi or Double Roman Narcissi, **20 cts. each, $2 per doz. For 6 bulbs, 30 cts. each, $3 per doz.**

PEBBLES. Carefully screened and selected. **Quart box 10 cts., 3 qts. for 25 cts.**

Double Narcissus, Alba plena odorata

Paper-White Grandiflora Narcissus growing in water

Double Narcissi

These are frequently termed the old-fashioned Daffodils and, while lacking the sturdiness of some of the single varieties for bedding, many are still used for border planting and as a pot-plant, or for forcing are used in large quantities.

Alba plena odorata. The well-known double white form of the Poet's Narcissus; delightfully fragrant. Sometimes called the Gardenia-scented Narcissus. Late-flowering and will not force. Best suited for bedding or borders; excellent cut-flower. Height 15 inches. **5 cts. each, 30 cts. per doz., $2 per 100, $15 per 1,000.**

Incomparabilis (Butter and Eggs). The double form of Sir Watkin. Full-double flowers, with orange center. Splendid for pot-culture, and forces well; excellent for outdoor planting, also. **5 cts. each, 30 cts. per doz., $2 per 100, $15 per 1,000.**

Orange Phœnix (Eggs and Bacon). Beautiful, double, white flowers, with orange nectary. Splendid for pot culture and cutting, and for garden decoration. Height 17 inches. **5 cts. each, 40 cts. per doz., $3 per 100, $25 per 1,000.**

Sulphur (or **Silver**) **Phoenix** (Codlins and Cream). Large, creamy white flowers, sulphur nectary. Exquisite corsage flower; fine for growing in pots. Height 18 inches. **10 cts. each, 75 cts. per doz., $4 per 100, $35 per 1,000.**

Van Sion

This, the most popular of the double Narcissi, is famous as the Old Double Yellow Daffodil. Rich golden yellow perianth and trumpet. This is one of the best winter-flowering and forcing sorts. Height 18 inches.

S. & W. Co.'s Exhibition Grade. This grade of Double Van Sion is selected specially for us from the **very largest double-nosed bulbs,** and are what is termed top-roots. Our large importations of this variety make it possible for us to secure this very fine grade of bulbs. Three bulbs planted in an 8-inch bulb-pan make an excellent show, and give four or five strong and perfect blooms.

	Each	Doz.	100	1,000
Jumbo Exhibition Grade	$0 10	$0 75	$4 50	$40 00
Mammoth Double-nose. Will produce two or three fine flowers	05	50	3 75	35 00
Selected Single-nose. Will produce one fine flower	05	40	2 50	22 00

A FEW FAVORITE NARCISSI

The varieties featured on this page, several of which we have illustrated in color, include many of the most popular sorts for either garden culture or indoor growing. All make splendid cut-flowers for home decorations.

CONSPICUUS (Barrii)

Large, broad-spreading perianth of soft yellow, short, yellow cup, edged bright orange-scarlet. A fine, large flower; one of the handsomest of all. Splendid for midseason forcing, and good for any position in the garden. Height 21 inches. **Selected bulbs, 5 cts. each, 35 cts. per doz., $2.50 per 100, $18 per 1,000.**

EMPEROR (Yellow Trumpet)

Perianth deep primrose-yellow, trumpet deep yellow. A variety splendidly suited for garden culture on account of its remarkable substance; good forcer also. Height 18 inches. **Mammoth bulbs** (recommended for garden culture), **5 cts. each, 50 cts. per doz., $3.25 per 100, $30 per 1,000.**

ODORUS RUGULOSUS (Jonquil)

A great improvement on the common sweet-scented Campernelle Jonquil. Flowers deep yellow and twice the size; four to six flowers on a stem; splendid color; grand for any position in the garden. Height 14 inches. **5 cts. each, 40 cts. per doz., $3 per 100, $25 per 1,000.**

MRS. THOMPSON (White Trumpet)

Creamy white perianth, pale lemon trumpet, passing into white, elegantly frilled; one of the best growers among the White Trumpets. Fine for garden culture or pots. Height 15 inches. **5 cts. each, 50 cts. per doz., $3.50 per 100, $30 per 1,000.**

POETAZ, ASPASIA

The bunch-flowered Poet's Narcissus. Perianth pure white, cup yellow; splendid for border planting or growing in pots or pans. Three or four large-sized flowers on a stem. Height 15 inches. **5 cts. each, 50 cts. per doz., $3.50 per 100, $32 per 1,000.**

POETICUS ORNATUS

Larger and better flower than the old Poeticus Narcissus, and considerably earlier. Pure white flowers, saffron cup, edged rosy scarlet. Makes a beautiful show in the garden. Height 14 inches. **Selected Mother bulbs, 5 cts. each, 35 cts. per doz., $2 per 100, $15 per 1,000.**

SIR WATKIN (Incomparabilis)

Perianth primrose-yellow, large and well formed yellow cup, tinged deep yellow. A giant among the Medium Trumpet sorts. A grand flower of wonderful substance for garden culture or pots, and one of the finest Narcissi grown. Height 21 inches. **Selected Mother bulbs, 5 cts. each, 50 cts. per doz., $3.50 per 100, $30 per 1,000.**

VICTORIA (Bicolor Trumpet)

A Bicolor famous for its large and durable flowers, which stand boldly erect. Broad perianth of creamy white, large, broad, fluted trumpet of rich yellow. A strong grower and splendid keeper. A grand variety for either garden or pot culture. Height 16 inches. **Selected Mother bulbs, 5 cts., each, 50 cts. per doz., $3.25 per 100, $30 per 1,000.**

VAN SION (Double Daffodil)

The most popular of all the Double Daffodils. Splendid for planting in the border or among evergreens and shrubs, or any position in the garden. The flowers are a deep, even shade of chrome-yellow. One of the finest for growing in pots, making a splendid cut-bloom for the home. **Mammoth bulbs, 5 cts. each, 50 cts. per doz., $3.75 per 100, $35 per 1,000.**

CHINESE SACRED LILY

The "Shui Sin Far," or Water Fairy Flower, Joss Flower or Flower of the Gods, etc., as it is called by the celestials, is a variety of Narcissus, bearing in profusion chaste flowers of silvery white, with golden yellow cups. They are of exquisite beauty and entrancing perfume.

The bulbs, of large size and great vitality, are of luxuriant growth, producing several spikes of flowers; the incredibly short time required to bring bulbs into bloom (four to six weeks after planting) is one of the wonders of nature. You can almost see them grow, succeeding almost everywhere and with everybody. They do well in pots of earth, but are more novel and beautiful grown in shallow bowls of water, with enough fancy pebbles to prevent them from toppling over when in bloom. A dozen bulbs, started at intervals will give a succession of flowers throughout the winter. We have found that first-size bulbs, as generally sent out by other houses, do not flower satisfactorily, and we therefore offer only Mammoth and Jumbo sizes.

	Each	Doz.	100
Mammoth bulbs	$0 15	$1 50	$10 00
Jumbo bulbs	25	2 50	20 00

GLASS BOWLS, for one bulb of Chinese Lily, 20 cts. each, $2 per doz.; for three bulbs, 30 cts. each, $3 per doz.

PEBBLES. Carefully screened and selected. Per quart box, 10 cts., 3 boxes for 25 cts.

Chinese Sacred Lily

CROCUS

Crocuses, among the earliest bulbs to flower, are most effective when planted in masses on the lawn, or arranged in three or four rows of one color in the border. They are perfectly hardy, and may be left in the ground for three or four years after planting, without being disturbed. The best method is to scatter the bulbs about the lawn and use an ordinary garden dibble or "Slim Jim" trowel, inserting several bulbs in each spot. This makes a very pretty effect in early spring, and the foliage and tops may be cut along with the grass safely when the first mowing is made.

The Giant-flowering Varieties are very ornamental when flowered in pots of eight to ten bulbs to a 5-inch size. They will not flower if exposed to heat, nor must too severe forcing be attempted. Care should be taken to cover the bulbs about 1 inch, as planting too deep causes them not to flower.

SELECTED NAMED VARIETIES

Dozen and 100 prices include postage; 25 bulbs at 100 rate; 250 bulbs at 1,000 rate

Albion. Blue, striped white.
Baron von Brunow. Dark blue.
Caroline Chisholm. White.
Cloth of Gold. Golden.
King of the Blues. Large; blue.
King of the Whites. Large; white.
La Majestueuse. White, violet-striped.
Mont Blanc. White.
Purpurea grandiflora. Purple.
Sir Walter Scott. White, striped lilac.
Yellow Mammoth.

20 cts. per doz., $1.25 per 100, $10 per 1,000

Giant-flowering Crocus, Kathleen Parlow

GIANT-FLOWERING CROCUS FOR POT CULTURE

The flowers of these varieties are twice as large as those mentioned above.

	Doz.	100	1,000
Cæsar. Deep purple	$0 30	$2 00	$15 00
Dorothea. Soft lavender-blue	30	2 00	15 00
Golden Queen. Pure yellow	30	2 00	15 00
Julia Culp. Large; purple	30	2 00	15 00
Kathleen Parlow. Pure white	30	2 00	15 00
Menando. Pale lilac	30	2 00	15 00

UNNAMED CROCUS, SEPARATE SHADES

	Doz.	100	1,000		Doz.	100	1,000
Blue	$0 15	$0 75	$6 50	**Purple**	$0 15	$0 75	$6 50
White	15	75	6 50	**Yellow**	15	75	6 50
Striped	15	75	6 50	**Mixed**	15	75	6 00

COLCHICUM (Autumn-Flowering Crocus)

Very effective and handsome hardy plants, the flowers of which come through the ground without leaves in the fall, the leaves appearing the following spring. These bulbs can also be grown in the fall of the year in shallow bowls of water, or in pots of earth, when they will come into bloom in two weeks after planting, making a display at a time when blooming plants are scarce. Bulbs should be ordered at once, if required for blooming this year, as September and October are their blooming months.

	Each	Doz.	100
Autumnale major. Large; rich purple	$0 10	$1 00	$7 50
Autumnale, Mixed. Mixed colors	05	40	3 00
Bornmulleri. Beautiful, large flowers of even shade of lilac. with white center	20	2 00	15 00

A crop of Stumpp & Walter Co.'s Lilium longiflorum giganteum at James Weir, Jr. and Sons' Greenhouses, Brooklyn, N. Y. (J. Ebb Weir in the foreground). A magnificent stock ready for Easter, 1914

SELECTED EASTER LILY BULBS

CULTURE.—Plant the bulbs immediately upon receipt, in pots not more than twice their diameter; the soil to be composed of a sandy loam, well enriched with about one-quarter of cow or cattle manure (shredded) and the pot well drained. The bulbs should be placed about half way below the rim or top of the pot, and just covered with soil, well watered, and, after two or three days, set out in a pit or coldframe and covered with 2 or 3 inches of leaves or cocoanut fiber. When the bulbs have become thoroughly rooted, bring inside in a temperature of about 60 degrees, and then fill the pots with soil to within 1 inch of the top. A suitable place for putting pots is under the bench until the bulbs have made growths about 6 inches high, when they may be placed upon the bench. About seven weeks before Easter they may be brought into a warmer temperature, and, if they have good root development, they can be forced in height and flower slowly; about five weeks from flowering time a slight application of liquid manure each week will benefit them greatly.

Spray the foliage once a day (twice a day during clear weather). It is also very important never to allow the soil to get very dry, and never feed unless the soil is moist.

When the buds can be counted easily, move plants where you can get the temperature down gradually, and finally mulch them with either a little sheep manure or bone flour.

JAPANESE EASTER LILIES

There are two varieties of Easter Lilies very extensively grown in Japan and exported to this country by the million—*Lilium longiflorum Formosum* and *Lilium longiflorum giganteum*. The former is grown on the Island of Formosa, and arrives in this country in **August;** the latter, a later-maturing sort, arrives in **October** and **November.** The Formosum differs from the Giganteum in that it is not strictly a "cropper," i. e., it does not all flower at the same time but rather over a period. Bulbs planted in August may be had in flower from Christmas well into the spring months. It is a wonderful type of Lily, frequently growing 4 to 5 feet high, and does not require forcing, while the Giganteum is more of an even height and is a cropper.

Lilium longiflorum Formosum

TRUE BLACK-STEM TYPE

(Ready for delivery in August)

	Each	Doz.	100
7 to 9 inches in circumference	$0 15	$1 50	$11 00
8 to 10 inches in circumference	20	2 00	15 00
9 to 10 inches in circumference	25	2 50	20 00
10 to 12 inches in circumference	40	3 75	30 00
12 to 14 inches in circumference	50	5 00	40 00

Lilium longiflorum giganteum

(Ready for delivery in October and November)

	Each	Doz.	100
7 to 9 inches in circumference	$0 15	$1 50	$10 00
8 to 10 inches in circumference	20	2 00	15 00
9 to 10 inches in circumference	25	2 50	20 00
10 to 12 inches in circumference	40	3 75	30 00

TRUE BERMUDA EASTER LILY

Lilium Harrisii **(Ready for delivery in August)**

The sizes given below we have found from experience to be the best to offer.

	Each	Doz.	100
7 to 9 inches in circumference	$0 25	$2 50	$14 00
9 to 11 inches in circumference	50	5 00	30 00

Covering Material for Bulbs. **Peat Litter.** This kind of Peat we have found as excellent material for covering Lilies while out in the frame or pit. Price, per four-barrel bale, $2.50.

Cow or Cattle Manure. **(Shredded.)** Excellent for use in culture of Lilies; convenient to handle, making it possible to secure this scare article at all times. 100-pound sacks only. 100 lbs. $2, 500 lbs. $9, 1,000 lbs. $16, ton $30.

HARDY LILIES

We especially recommend deep planting, say, from 6 to 10 inches; varieties like Speciosums require at least 10 inches, with an ample amount of sand beneath the bulb to insure proper drainage. Cover the beds with leaves or litter during winter. Lilies thrive well in borders, formal gardens or shrubbery, and usually flower at a time when the shrubbery has ceased blooming, adding increased interest. The following varieties have proved to be sorts that may be planted in the fall or spring with excellent results. We frequently receive orders for *Lilium candidum* for spring delivery. This Lily arrives from France in August, and must be planted by October 1.

Most Lily Bulbs, being of late maturity, do not arrive in our country until October and November, which is conceded to be the best time to plant. Where the ground is liable to freeze before late Lilies arrive, it should be mulched with leaves or manure.

LILIUM CANDIDUM (Madonna Lily)

Choice Northern-Grown. Arrive in August

The favorite Lily of the old-fashioned garden, produces strong, stiff stems, studded with a mass of pure, glistening white flowers, that enliven the perennial flower-garden or, for contrast with the beautiful green shrubs of the June garden, are unequaled, frequently growing 4½ feet high.

Plant some bulbs during August and September and enjoy a big crop of flowers next June, or pot up, store in coldframe, and force for early winter in the greenhouse or conservatory. Our bulbs of this splendid Lily are grown in northern France, and are the true thick-petaled variety, which is much superior in habit and flowering qualities to that of the cheap, loose, southern-grown bulbs.

	Each	Doz.	100
First-Size Bulbs	$0 10	$1 00	$7 50
Mammoth Bulbs	15	1 50	10 00
Jumbo Bulbs	25	2 50	15 00

Lilium candidum

Lilium auratum (Golden-rayed Lily of Japan)

LILIUM AURATUM

(The Golden-Rayed Lily of Japan)

One of the finest and most popular of the hardy garden Lilies. It thrives best in locations where the lower portion of the plant will be partially sheltered from the hot sun, as among peonies or herbaceous plants in the hardy border, where groups of six to twelve of these Lilies produce a stately and magnificent effect. The flowers are pure white, thickly studded with crimson spots, while through the center of each petal runs a clear golden band. Fully expanded the flowers measure nearly a foot across, are produced abundantly from June to October, and possess a most delicious fragrance. 3 to 5 feet.

	Each	Doz.	100
8- to 9-inch bulbs	$0 10	$1 00	$8 00
9- to 11-inch bulbs	20	2 25	15 00
11- to 13-inch bulbs	40	3 50	25 00
13- to 15-inch bulbs	45	4 50	35 00

Lilium Auratum will also be furnished at the above prices for spring delivery up to May 1.

HARDY LILIES, continued

Lilium speciosum magnificum

(Oriental Orchids)

Words cannot describe the beauty of this variety. Frosted white, spotted, clouded and bordered with deep pinkish crimson. A much superior variety to the Roseum, Rubrum or Melpomene of the Speciosum type. For the border, among hardy plants or naturalized among rhododendrons, this is an equal favorite with the *Lilium auratum* offered on the previous page. Splendid for pot culture as well. Blooms outside during August.

	Each	Doz.	100
8- to 9-inch bulbs	$0 10	$1 00	$8 00
9- to 11-inch bulbs	20	2 25	15 00
11- to 13-inch bulbs	35	3 50	25 00
13- to 15-inch bulbs	45	4 50	35 00

Lilium speciosum album

The white Speciosum, which is usually grown with Magnificum and *Lilium auratum*, is a very dainty Lily. It flowers outside in the border or among rhododendrons at the same time as Auratum and Magnificum, and is one of the most extensively cultivated varieties.

	Each	Doz.	100
8- to 9-inch bulbs	$0 20	$2 25	$15 00
9- to 11-inch bulbs	35	3 50	25 00
11- to 12-inch bulbs	40	4 50	35 00

Lilium Henryi

(The Yellow Speciosum)

A new and very beautiful hardy Lily from northern China. The plants are of vigorous growth, frequently attaining the height of 6 feet. This Lily is noted for its graceful habit and is an unusually excellent bloomer. It is thoroughly hardy, and, when well established, will increase rapidly. Color rich golden yellow, lightly spotted with brown, and in shape quite resembles the Speciosum types.

Choice bulbs, 70 cts. each, $7 per doz., $50 per 100.

Lilium speciosum magnificum

OTHER HARDY LILIES

Suitable for Garden Culture

	Each	Doz.	100
Batemanii. A truly charming Japanese variety, growing 3 feet high, with six to eight apricot-colored flowers on a stem. Blooms in July and August	$0 25	$2 50	$18 00
Canadense (Canadian Bell-flower Lily). One of the most beautiful native Lilies; flowers bright yellow, with spots of red. Blooms in July and Aug.	$0 15	$1 25	$9 00
Davuricum. This beautiful Lily comes from the home of *L. tenuifolium* in Siberia. It resembles a native Philadelphicum. It is of easy culture, grows 2 to 3 feet high, and blooms in umbels of three to five upright scarlet flowers, dotted black	25	2 50	15 00
Davuricum, Yellow. Similar to the above except in color, which is a pure yellow	25	2 50	15 00
Elegans aurantiacum vernum. Clear apricot, without spots or flakes; very fine and effective. Blooming season for all Elegans Lilies is June, and they average 1½ feet in height	25	2 50	15 00
Elegans, Leonard Joerg. Rich apricot, spotted; very fine	15	1 50	10 00
Elegans, Quilp. Beautiful vermilion, with few black spots, overspread with bright luster; petals broad and somewhat rounded; a fine-formed flower much like a tulip	25	2 50	15 00
Elegans robusta. Magnificent, large flower; orange, spotted black	15	1 50	10 00
Elegans, Mixed. A mixture of apricot and orange sorts	10	1 00	8 00
Hansonii. Under favorable conditions attains a height of 3 to 4 feet. Flowers reddish orange, eight to twelve in a cluster; petals thick and durable; a native of Japan, but our bulbs are strong home-grown.	50	5 00	40 00
Superbum. In a collection of best plants of all countries, our native Superbum Lily would deserve a first place. In deep, rich soil it often grows 8 feet high, with twenty to thirty flowers. It is of the easiest culture, and may be grown as a wild flower in any swampy or rough part of a place where the grass is not mown. Extra-selected bulbs	$0 15	$1 50	$10 00
Tenuifolium. The lovely Coral Lily of Siberia. A great beauty. The brightest of all Lilies. Grows 20 inches high, with finely cut foliage, slender stems and beautifully shaded coral-red flowers. One ought to grow them by the dozen, they are so fine for cutting and making clumps for the lawn. Blooms very early	20	2 00	12 00
Tenuifolium, Golden Gleam. A seedling of the Tenuifolium, and identical in habit except in color, which is a beautiful tone of pure yellow	30	3 00	20 00
Tigrinum splendens. The finest type of the quaint and much-loved Tiger Lily. Large, selected bulbs	15	1 50	10 00
Tigrinum splendens, Double. The double form of the above	20	2 00	12 00
Wallacei. This Lily is very floriferous, each bulb throwing up four to six flower-stems, each one of which is crowned with eight to ten beautiful, upright blossoms, of a delicate, bright apricot-color	15	1 50	10 00

RUSSIAN LILY-OF-THE-VALLEY CLUMPS

For Outdoor Planting

Our Lily-of-the-Valley Clumps are extra selected, well grown and, if planted outdoors by the middle of April, will flower splendidly during May. If grown under the proper conditions, these clumps will increase rapidly, and every spring produce a profusion of dainty flowers. Extra-strong clumps, 35 cts. each, $3.50 per doz., $25 per 100.

Russian Lily-of-the-Valley Pips

In judging the price of our Russian Lily-of-the-Valley, please remember that the best is the cheapest. Our Valley is positively among the best. Is bought at open prices, with instructions for a selection of the best-developed pips. Our long experience and large importations have commanded this extra selection. Introduced a few years ago, it has now become famous, being forced very extensively by a large number of celebrated Lily-of-the-Valley growers. The Russian Valley produces strong spikes of flowers, about 15 inches in height, bearing from twelve to twenty extra-large, pure white bells, which are delightfully fragrant. For forcing, these pips are the very best that can be planted. **New crop, November delivery, $2.50 per 100, $22 per 1,000.**

COLD-STORAGE RUSSIAN LILY-OF-THE-VALLEY PIPS

We are prepared to furnish our Russian Lily-of-the-Valley Pips during the entire year in original cases of

Lily Bulbs from Cold Storage

The following Lilies are repacked on arrival and put in cold storage for the convenience of our patrons who desire to have Lilies in bloom throughout the year. *Lilium longiflorum giganteum* is extensively forced by the florist trade all the year, and can be forced into bloom in four months; *Lilium speciosum* in four to six months. The main point in the culture of Lilies from cold storage is to keep the bulbs in a cool place or cellar, after potting, so as to produce the greatest root-action before bringing to the light.

We do not recommend *Lilium auratum* from cold storage after May 1, as it is subject to decay.

LILIUM LONGIFLORUM GIGANTEUM

The best all-round Easter Lily (from cold storage) for forcing. This Lily may be had in bloom at any time of the year desired, if allowed three months from planting time.

	Doz.	100
7 to 9 inches in circumference	$2 00	$15 00
9 to 10 inches in circumference	3 50	25 00

LILIUM SPECIOSUM

	Doz.	100
Album. The white Speciosum.		
8 to 9 inches in circumference	$3 00	$20 00
8 to 10 inches in circumference	3 50	25 00
Magnificum. This variety is an improvement on Roseum, Rubrum and Melpomene; it is of more robust habit and a freer bloomer, its color being a rich scarlet.		
8 to 9 inches in circumference	2 00	15 00
9 to 11 inches in circumference	3 00	20 00
11 to 13 inches in circumference	4 00	30 00

100 S. & W. Co.'s Famous Russian Valley for $3.50	250 S. & W. Co.'s Famous Russian Valley for $7	500 S. & W. Co.'s Famous Russian Valley for $13	1,000 S. & W. Co.'s Famous Russian Valley for $25	2,000 S. & W. Co.'s Famous Russian Valley for $48

GIANT FREESIAS

Without doubt the most sweetly scented flower growing; a single bloom permeates the living-room with its delicate perfume. Although they are quite popular and very easily raised, we would suggest the following treatment:

Procure the bulbs as early as possible, and plant them in successive batches from August to October, using from six to twenty-five bulbs for a single pan. The soil should be a mixture of loam, to which must be added leaf-mold and sand. The bulbs planted early, say August and September, may be placed outdoors in a sheltered spot until cold weather sets in; of course they must be regularly watered and kept growing all the time. In October, before frosts appear, the pots should be placed in frames, if possible, or near the window of an unheated room. Not before November must the young plants be brought to gentle heat, and if thus cared for they will flower perfectly in January. The foliage of the Freesias is very fine and slender and must be supported with light stakes placed around the outer edge of the pans. The glistening, pure white flowers are borne on long stems, and are very valuable for cutting.

FREESIA, PURITY

The popularity of the Freesia has been very marked with the introduction of the Purity type. We offer both the greenhouse- and the California-grown. Both stocks are absolutely true.

	Doz.	100	1,000
PURITY, True (Greenhouse-grown)—			
Mammoth Size	$0 75	$4 50	$40 00
First Size	60	3 50	30 00
PURITY, True (Fischer's California-grown)—			
Mammoth Size	70	4 00	35 00
First Size	50	3 00	25 00
EXCELSIOR. A new variety, the flowers being three times as large as the old Refracta alba with the same marking in the throat. In color a little whiter than Refracta alba	1 00	8 00	75 00
REFRACTA ALBA—			
Jumbo Bulbs	40	2 25	20 00
Mammoth Bulbs	25	1 75	15 00
SNOWSTORM. A distinct and greatly improved type, producing large sprays of pure snow-white flowers. Foliage less coarse than Purity. Top-root	35	2 50	20 00

The Purity Freesias illustrated here were grown from our bulbs at Lakeside Gardens, Elberon, N. J., during the spring of 1913

Spirea, Peach Blossom

SPIREA

Arrive in November

For conservatory or window-garden decoration there is no better subject. Are frequently planted out, and flower during spring. They are extensively grown by florists as an Easter plant. Pot upon arrival and store in cool cellar or coldframe until two months before you wish to have them in bloom.

Rubens Spirea

This Spirea, which was first introduced in this country last year, has proved to be the finest pink Spirea extant.

35 cts. each, $3.50 per doz., $28 per 100

	Each	Doz.	100
Peach Blossom. This variety is much of the same habit as Gladstone except in color, which is a soft pink	$0 25	$2 50	$12 00
Queen Alexandra. Shrimp-pink; a variety very largely grown on account of its even color and dense, compact spikes	25	2 50	12 00
Gladstone. One of the finest and most extensively grown of the white varieties. Spikes of pure white flowers, borne on stems 1½ feet high; foliage excellent	20	2 00	10 00

WE STRONGLY ADVISE THOSE WHO HAVE NOT GIVEN OUR PURITY FREESIA A TRIAL TO TRY 50 OR 100 FOR COMPARISON

GENERAL LIST OF BULBS

Amaryllis Johnsonii

AMARYLLIS

CULTURE.—Place the bulbs in live moss, only moderately moist, near a window of a warm room. Watch the bulbs carefully, and when the first sign of growth appears through the top, get a 6-inch pot and be ready to pot up. The soil should be a fairly rich one, and when set, most of the bulb should be above the soil. Be moderate in watering first, but increase as growth increases, then place in a warm, light room near the window, and the magnificent spikes usually appear in a short time.

Giant-flowering Vittata Hybrids. Conceded to be the most noble and magnificent section of the Amaryllidaceæ. The stock we have supplied for several seasons has been grown in Bermuda, the seed originally supplied by a most reliable hybridist of this plant. It would require a great amount of space to offer them with descriptions of the several representative types, so we confine ourselves to listing in two general classes—red ground, variegated with white; white ground, variegated with red. The red varies in tones from a brilliant fiery color to crimson, the variegation is sometimes a broad blaze of white in the center of each petal; again, the ground-color is white, abundantly streaked with red or crimson. The flower-spikes are from 1 to 3 feet high, the foliage long and graceful. Flowers borne in clusters, are often 8 inches across. **Extra-strong bulbs, 75 cts. each, $8 per doz., $60 per 100.**

Belladonna major. Fine variety for fall blooming; flowers are a lovely shell-pink. **15 cts. each, $1.50 per doz.**

Johnsonii. Has immense, trumpet-shaped flowers, borne on strong, fleshy stems, and are of rich, deep, velvety crimson, each segment having a broad white stripe contrasting beautifully. **Mammoth bulbs, 50c. each, $5 per doz.; Selected bulbs, 30c. each, $3 per doz.**

ACHIMENES

Profuse summer-blooming plants for the conservatory or window-garden. Flowers of many charming colors, ranging through various shades from white to crimson, also spotted. 10 cts. each, 75 cts. per doz., $5 per 100. Ready in November.

ALLIUMS

	Doz.	100
Neapolitanum. An excellent white variety	$0 15	$1 00
Moly. Yellow	15	1 00
Ostrowskyanum. Rose	25	2 00

ANEMONES (Windflower)

These popular flowers of French origin are exceedingly useful, both as a decorative plant for house or garden, and fine for cutting. If planted outdoors in the fall they must be well protected with leaves or other litter; they may also be planted in the spring in well-drained soil, and will flower during the summer, starting in May. When planted in pots, place twelve or more in a cluster and store away, if possible, in a coldframe. There they should be left until the middle of March; if carefully watered, when brought into the house they will flower abundantly. Height, 12 inches.

St. Brigid. A new and greatly improved race of Irish production, bearing magnificent flowers, double, semi-double and single, 3 to 5 inches across, and of the richest as well as the daintiest colors, markings and blendings, all having a distinct, dark base. They have long stems; very graceful flowers for vases. **40 cts. per doz., $2.50 per 100, $20 per 1,000.**

Fulgens. The single, rich, dazzling scarlet flowers and light, elegant growth render it the most attractive flower of spring. It is valuable for cutting, as it lasts a long time; the jet-black center of these flowers makes them decided favorites. **60 cts. per doz., $4 per 100, $35 per 1,000.**

Poppy-flowered. Beautiful, single, saucer-shaped, poppy-like flowers; mixed colors. **30 cts. per doz., $2 per 100, $15 per 1,000.**

Anemone, St. Brigid

Anemones (Hardy Varieties)

Splendid for naturalizing in the grass, wild garden or border.

Apennina. Rich blue flowers about 1 inch in diameter; elegantly cut foliage; blooms profusely in the early spring; fine in garden borders and naturalized. Height 6 inches. 30 cts. per doz., $2 per 100, $15 per 1,000.

Blanda. One of the earliest and largest-flowering of the spring-flowering Anemones, blooming with the snowdrops and crocus; color ranges from light to dark blue. Splendid for naturalizing, also good for pot culture for winter blooming. Selected bulbs, 50 cts. per doz., $3 per 100, $27.50 per 1,000.

ANOMATHECA CRUENTA

(Scarlet Freesia)

A very pretty plant for pot culture. Grows about a foot high; flowers resemble the freesia in form, but are of a beautiful scarlet. 15 cts. per doz., $1 per 100.

CAMASSIA

Esculenta. Perfectly hardy, thriving in sheltered and partially shaded situations. Graceful flowers borne on sturdy spikes. Height 14 inches. 30 cts. per doz., $2 per 100, $15 per 1,000.

Cusickii. Pale lavender, starry flowers, with yellow anthers; a robust-growing variety, with tall spikes. Splendid for border planting. Height 2 to 3 feet. $1 per doz., $8 per 100, $70 per 1,000.

CHIONODOXA

(Glory-of-the-Snow)

An early-flowering spring bulb for borders or rockery. Produces flower-spikes bearing ten to fifteen scilla-like flowers. Perfectly hardy and should be planted close together for effect.

Gigantea. Soft lavender-blue, whitish center. Mother bulbs, 30 cts. per doz., $2 per 100, $15 per 1,000.

Luciliæ. Deep blue, with a white center. Selected mother bulbs, 25 cts. per doz., $1.50 per 100, $12 per 1,000.

Sardensis. True gentian-blue, very striking. Selected mother bulbs, 25 cts. per doz., $1.50 per 100, $12 per 1,000.

CROWN IMPERIALS

Well-known hardy border plants, bearing clusters of immense, pendent, bell-shaped flowers, surmounted with a tuft of green leaves. They do better if planted in good, rich soil, and may be left undisturbed for years.

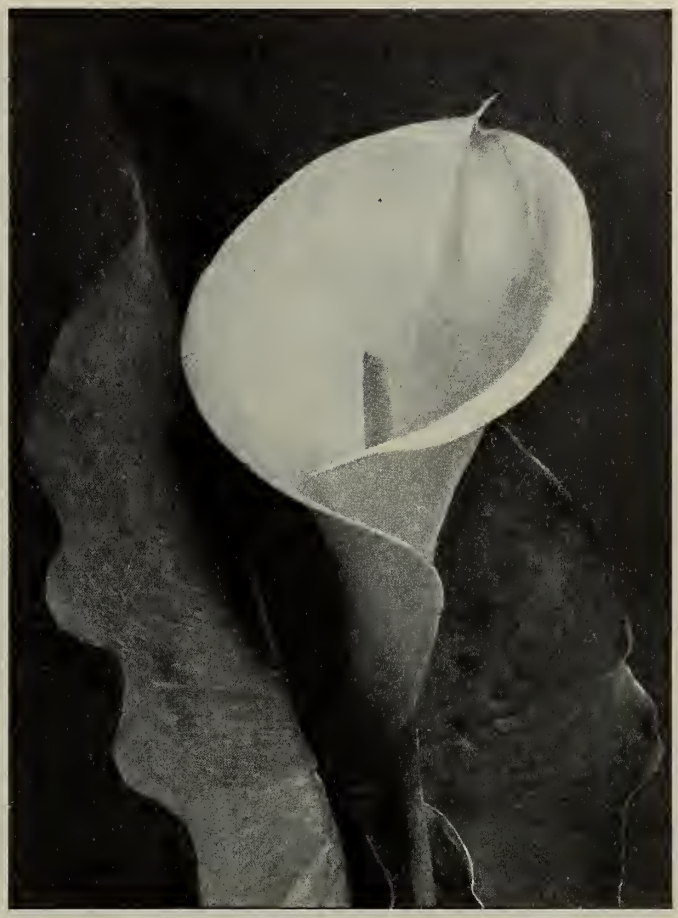
	Each	Doz.	100
Aurora. Red	$0 20	$2 00	$15 00
Crown-on-Crown. Several whorls of flowers, one above the other	20	2 00	15 00
Gold-striped. Crimson; variegated foliage	25	2 50	20 00
Sulphureus. Sulphur-yellow	20	2 00	15 00
Mixed Varieties	10	1 00	8 00

CYCLAMEN PERSICUM GIGANTEUM

We have a magnificent strain of this most desirable greenhouse bulb which has been grown especially for us, and which we know to be far superior to any stock heretofore offered. Can only be grown indoors. Top of the bulbs, when potted, should slightly protrude above the soil. Large-sized bulbs in the following colors: Rose, White, Crimson and Salmon, 25 cts. each, $2 per doz., $12 per 100.

Yellow Calla Lily (*Richardia Elliottiana*)

Our patrons who have not grown the Yellow Calla Lily should try a few bulbs. A charming pot-plant in every way.



White Calla Lily

CALLA LILIES

These like a stiff, clayey soil with a small quantity of shredded cow manure; bulbs should be set with the crown, or top, protruding just above the surface. When in growing condition, warm water given several times during the week will hasten the flowering period and increase the number of blooms. Of the large-flowering varieties plant but one in a pot; of the Little Gem plant from three to six in a pot. We call especial attention to the Yellow Calla, which is one of the grandest varieties in cultivation, and most valuable for house or conservatory decoration. See the description below. Plant Callas indoors only in the fall of the year.

WHITE (*Richardia Æthiopica*).	Each	By mail	Doz.	100
Monster Size	$0 40	$0 45	$4 00	$30 00
Mammoth Size	30	35	3 00	20 00
Medium Size	20	25	2 00	14 00

BLACK. Dark flower. Should be watered sparingly until growth appears. Ready in October. 20 cts. each, $2 per doz., $12 per 100.

SPOTTED. White flower; green foliage, spotted white. Blooms very profusely and makes a handsome pot-plant. Ready in October. 15 cts. each, $1.50 per doz., $10 per 100.

LITTLE GEM. Our stock of these is genuine, being procured directly from the original source. The plant and flower are indeed a curiosity. In appearance and growth it is just like the White Calla, except that the flower and plant are much smaller. They are very free bloomers and are excellent for cutting or as pot-plants. 10 cts. each, $1 per doz., $6 per 100.

YELLOW (*Richardia Elliottiana*). A grand novelty, one that should be planted extensively. The deep golden yellow flowers are truly magnificent and produced in abundance. The green foliage is spotted creamy white, which adds to its beauty. Large bulbs, 50 cts. each, $5 per doz., $35 per 100.

DIELYTRA SPECTABILIS

(Bleeding Heart)

Ready in November

A very ornamental spring-flowering plant. The flowers, which are heart-shaped, produced on long, drooping stems, are of a beautiful rose-and-white color combination. It is the earliest spring plant to flower, with the exception of some bulbs. After the flower has bloomed the plant makes a very attractive appearance with its foliage. In order to make strong root-development, the top may be cut away to the ground after the foliage has thoroughly developed. Dielytra forces very readily and is very attractive in a greenhouse or conservatory. We offer very strong, large roots 25 cts. each, $2.50 per doz., $15 per 100.

ERANTHIS HYEMALIS (Winter Aconite)

Early in spring the golden blossoms look charming, resting on an emerald-green cushion of leaves, and forming a striking contrast to the snowdrops, scillas and chionodoxas. The foliage remains long after the flowers, making the plant especially valuable in moist situations, such as under trees, which the Winter Aconite enjoys, and where few other flowering plants will thrive. 3 to 8 inches high. 25 cts. per doz., $1.50 per 100, $10 per 1,000.

ERYTHRONIUM (Dog's-Tooth Violet)

Beautiful, hardy plants, especially suited to moist, shady situations; the leaves are handsomely variegated; flower-stems about a foot high, bear lily-like blossoms of different colors; does well in pots.

Americanum. Large, cream-colored flowers, with maroon base; leaves richly mottled. 50 cts. per doz., $2.50 per 100.
Dens-Canis album. White. 25 cts. per doz., $2 per 100.
Dens-Canis, Rose Queen. 25 cts. per doz., $2 per 100.
Dens-Canis, Purple Flag. 35 cts. per doz., $2.50 per 100.
Dens-Canis, Mixed. 20 cts. per doz., $1.50 per 100.

Grape Hyacinths Heavenly Blue

EREMURUS ROBUSTUS

A noble and rare bulbous plant from Turkestan, and one of the choicest subjects for the permanent hardy border. It thrives best in a well-drained, sheltered, sunny position, and prefers a deep, sandy loam to which has been added a liberal quantity of well-rotted cow manure. A covering of 4 or 5 inches of leaves or litter will be beneficial and save the young shoots, which start early, and are liable to be damaged by late frosts. It produces immense flower-stems, 6 to 10 feet high, bearing a dense raceme of flesh-pink flowers, each nearly 2 inches across. Extra-strong, flowering roots. 75 cts. each, $6 per doz. Ready in October.

Himalaicus. Another noble variety from the temperate Himalayan Mountains, 4 to 8 feet high. Raceme nearly 2 feet long, of lovely pure white flowers as large as a fifty-cent piece. This is perhaps the hardiest and easiest grown of this magnificent genus. Strong, flowering roots, 75 cts. each, $6 per doz. Ready in October.

FRITILLARIA MELEAGRIS

Singular, dwarf, spring-flowering plants, bearing large, pendent bell-shaped flowers of various colors, in yellow, white, black, purple, striped and splashed and checkered in the most curious way. They are invaluable for pot culture, and exceedingly pretty when grown in large groups in the garden border or wild garden in a dry situation.
Meleagris alba. Pure white. 5 cts. each, 30 cts. per doz., $2 per 100.
Mixed Varieties. 3 cts. each, 25 cts. per doz., $1.50 per 100.

GLOXINIAS

S. & W. Co.'s Superb Strain

Ready in December

Emperor Frederick. Red, bordered white.
Emperor William. Violet, bordered white.
Princess Elizabeth. White, bordered blue.
Mont Blanc. Pure white.
Violacea. Dark violet.
Queen Victoria. Dark rose.
Madame Helene. White, crowned violet.
Defiance. Scarlet.
Princess Mathilda. White, bordered rose.
King of the Reds. Deep scarlet.
Prince Albert. Dark violet.
Finest Mixed.

15 cts. each, $1.50 per doz., $10 per 100

GRAPE AND FEATHERED HYACINTHS

Very beautiful little flowers for planting in masses, either in shade or where exposed to the sun. When planted out in herbaceous borders, where they can be left undisturbed, they do exceedingly well; each year adding to their already profuse-blooming qualities.

Azureum. Bright blue. One of the earliest spring flowers. Blooms outside middle of February. 35c. per doz., $2.50 per 100.
Botryoides alba (White Grape Hyacinth). 15 cts. per doz., $1 per 100, $8 per 1,000.
Botryoides cærulea (Blue Grape Hyacinth). 15 cts. per doz., $1 per 100, $8 per 1,000.
Heavenly Blue. This variety is the largest and best of the Grape Hyacinths. The bells are large and form a fine truss. Splendid effects are produced by massing in the garden or border. 35 cts. per doz., $2.50 per 100.
Plumosum. (Feathered Hyacinth). Violet-blue. An excellent subject for the wild garden. 25 cts. per doz., $1.25 per 100.

The variety Heavenly Blue when used as a border around Narcissi makes a splendid contrast. Excellent for growing in fiber in shallow dishes in the home.

WINTER - FLOWERING GLADIOLI

Cardinalis, Nanus or Colvillei Type

Ready in November

This Gladiolus belongs to the most useful class of all. They can be forced by the end of March, and come in very useful when most of the other bulbs have gone. Noted for their lasting qualities; every flower opens to the extremity of the spike. Their rich coloring and vivid markings on the lip petals rival those of the orchids, and we recommend them either for border planting or for forcing in pots or flats.

	Doz.	100	1,000
Ackermannia. Salmon-orange, with white blotches, edged scarlet	$0 25	$1 50	$12 00
Alexis. Beautiful salmon-pink, creamy blotch, edged deep carmine	35	2 00	15 00
Blushing Bride. A very popular sort forced by the millions; delicate pink ground, with carmine blotch	25	1 50	12 00
Charles MacIntosh. Deep brilliant scarlet, purple blotch; very beautiful	35	2 00	15 00
Delicatissima superba. Pure white, flaked rosy crimson; a most graceful and effective variety, with long spikes	40	3 00	25 00
Fiery Knight. Dark scarlet, flaked violet-carmine. A very vivid and striking color	50	3 50	30 00
Peach Blossom. A variety as extensively forced as Blushing Bride; of a uniform peach-blossom-pink	25	1 50	12 00
The Queen. A grand new white variety; large flowers, borne on tall spikes	50	3 50	30 00
The Bride. A small-flowered type used very extensively for forcing in greenhouses among carnations, etc. Compact spikes of pure white flowers	25	1 00	8 00

Gladiolus, Peach Blossom

Large-Flowering Gladioli

Ready in December

The following five varieties, which are of proved value for outdoor planting, are equally good for forcing. A carnation temperature suits them best.

America. Best of the light pinks. 35 cts. per doz., $2.50 per 100.
Augusta. Best of the whites for forcing. 60 cts. per doz., $4 per 100.
May. White, flaked crimson; splendid forcer. 50 cts. per doz., $3.50 per 100.
Mrs. Francis King. Flowers of gigantic size; soft scarlet; on stems 4 feet long. 50 cts. per doz., $3.50 per 100.

IXIAS

The Ixia is a beautiful little winter-flowering bulb, with long, slender, graceful spikes of bloom. The colors are rich, varied and beautiful, the center always differing in color from the other parts of the flower, so that the blossoms, expanding in the sun's rays, present a picture of gorgeous beauty. Very desirable for pots.

	Doz.	100
Aurantiaca major. Golden yellow, with large, dark eye	$0 35	$2 00
Craterioides major. Bright scarlet; very early; forces well	50	3 00
Emperor of China. Rich yellow, with a dark eye; very handsome	50	3 00
Smiling Mary. Bright rose-pink	75	5 00
Snowflake. Pure white	50	3 00
Viridiflora. Beautiful green, black eye; very striking and pretty	75	5 00
Finest Mixed	30	1 50

NERINES (Amaryllidaceæ)

There is an ever-increasing demand for these exquisitely beautiful flowering bulbs. Established in pots in an ordinary greenhouse, with a temperature ranging from 35 degrees to 60 degrees, they produce annually their large, handsome umbels of blooms on scapes varying from 12 to 24 inches long. The best time for repotting is during August, using a good sandy loam with a little leaf-mold and well-decayed cow manure. Flowering as they do in October and November, we find them a very excellent subject.

Coruscans. Brilliant orange-scarlet. 75 cts. each, $7.50 per doz., $50 per 100.
Fothergilli major. Vivid scarlet; nothing in the way of color can surpass the splendor of this flower, and its texture seems too delicate even for that of a flower; by artificial light the crystalline cells of the petals sparkle like jewels. It is also the most floriferous of the group. 75 cts. each, $6.50 per doz., $50 per 100.
Flexuosa excellens. Bright rosy pink; a very beautiful variety. 50 cts. each, $5 per doz., $40 per 100.
Sarniensis (True Guernsey Lily). Color deep rose. 25 cts. each, $2.50 per doz., $20 per 100.

Nerines Grown in Fiber. We have had excellent success in growing this beautiful bulbous plant in fiber and would recommend our customers trying same. Sufficient fiber to plant half dozen bulbs 25 cts., one dozen bulbs 50 cts.

BEAUTIFUL BULBOUS IRISES

Few flowers are equal in merit to the Iris, in its many forms and gorgeous colorings.

The Irises mentioned on this page, with the exception of Susiana, are grown from bulbs just like the daffodil or tulip. The Dutch Iris in this latitude flowers during May; the Spanish, early June, and the English, late June. Bulbs do best if planted in October, and also are better if protected with a slight covering during winter.

SPANISH IRIS—(1) Solfaterre, (2) Beauty, (3) King of the Whites, (4) Cajanus

NEW SPANISH IRIS

(*Iris Hispanica*)

Selected Mother Bulbs for Forcing or Planting Out

These exquisite and dainty flowers may be justly termed the "poor man's orchid," as the colorings and markings are scarcely surpassed by that noble genus. The flowers are exceedingly graceful, of large size, frequently 4 to 5 inches across, and are borne on stems 24 inches tall.

Few, if any, of the Irises lend themselves to more artistic arrangement as a cut-flower for the drawing-room or dinner-table.

They may be planted in pots and stored in cold-frames over winter, and forced into bloom during March. They are seen to the best advantage if arranged in masses of the different colors, all of which combine splendidly, in borders or beds. Plant bulbs 3 to 4 inches deep, and the same distance apart. Sharp builders' sand, to the depth of 1 inch beneath base of the bulbs will amply repay by more luxurious spikes and larger flowers. A situation well open to the sun suits them best, and, like all bulbous Irises offered, a slight mulch will prove beneficial.

	Doz.	100	1,000
Beauty. Pale lavender-blue	$0 30	$1 50	$12 00
British Queen. Best early white.	25	1 25	9 00
Bronze Queen. Finest terra-cotta	35	1 75	15 00
Cajanus. Finest bright yellow	25	1 25	9 00
Filifolia. Dark blue, with orange blotch; flowers at least ten days earlier than other varieties	50	3 50	30 00
King of the Blues. Deep, dark blue	30	1 50	12 00
King of the Whites. Pure white.	30	1 50	12 00
Leander. Golden yellow	30	1 50	12 00
Louise. Porcelain-blue	25	1 25	9 00
Solfaterre. Dark blue and yellow.	30	1 50	12 00
Unique. Light blue and white	35	1 75	15 00

ENGLISH IRIS (*Iris Anglica*)

This type is very similar in character to the Spanish varieties, but somewhat dwarfer, more robust, with heavier foliage and larger flowers, flowering two weeks later. Not suited to forcing, blooming in late June.

Bleu Celeste. Pale blue.
Emperor. Deep violet.
La Majestueuse. Lilac,
Miss Barkley. White, flaked red.
Mont Blanc. Pure white.

40 cts. per doz., $2.50 per 100, $22 per 1,000

IRIS HOLLANDICA

New Early-Flowering Dutch Iris

This race may be best described as a giant strain of the early-flowering Spanish Iris. The foliage is broader and of a rich, glaucous green; the flowers are rich in their colorings; they flower about two weeks earlier than the Spanish Iris, and require the same cultural treatment. Like all bulbous Iris offered, they are better for a covering of leaves or litter as a protection.

Albert Cuyp. Standards pure white, falls lemon-yellow, large, orange-yellow central blotch. $1.50 per doz., $10 per 100.

Anton Mauve. Very large and substantial flowers of a most pleasing tone of uniform soft blue; very exquisite flower. 75 cts. per doz., $5 per 100, $40 per 1,000.

Brijet. Porcelain-blue with grayish lilac. $1 per doz., $7 per 100, $60 per 1,000.

C. Van de Windt. Standards and falls pure white, central blotch clear yellow. $1.50 per doz., $10 per 100, $90 per 1,000.

David Teniers. Pale yellow, with citron-yellow falls; tall grower. $1.50 per doz., $10 per 100, $90 per 1,000.

Hartz. Falls grayish lilac, flaked yellow, standards purple-blue. 75 cts. per doz., $5 per 100, $40 per 1,000.

Hobbema. Large flowers; white, inside faintly tinged blue, falls large, palest yellow; orange blotch. 75c. per doz., $5 per 100, $40 per 1,000.

J. Weissenbruch. Uniform pale mauve, a very soft and beautiful color. 75 cts. per doz., $5 per 100, $40 per 1,000.

Rembrandt. One of the showiest sorts. Deep blue, with a large, orange-yellow central blotch; flowers of great substance. 80 cts. per doz., $6 per 100, $50 per 1,000.

Th. de Bock. Falls olive-yellow, standards purple-blue. 75 cts. per doz., $5 per 100, $50 per 1,000.

Mourning Iris (**Iris Susiana**). The groundwork of the flower is silvery gray, so mottled and veined and lined with dark chocolate and black as to leave one under the impression that it is only a silver lining showing through. 10 cts. each, $1 per doz., $7 per 100.

Japanese Iris

JAPANESE AND GERMAN IRIS

The Japanese and German Irises are perfectly hardy, and flower in greatest profusion.

German Iris usually flowers in June and the Japanese in July, and attain their greatest perfection if grown in moist soil, or if plentifully supplied with water while growing and flowering. Our stock is *American-grown*, and no effort is spared to keep it true to name and color. They are thoroughly acclimated and hardy.

The varieties offered below have been chosen from a list of the finest Japanese and German sorts, which were tested out, and only the best and most distinct varieties grown. We offer below six of the best "double" varieties, or six-petal, and six of the "single," or three-petal sorts of Japanese Iris. Both are equally valuable as cut-flowers, for which purpose they should be cut in a bud state, permitting the blooms to expand after being placed in water. Our selection of German Iris consists of the best twelve varieties.

Delivery can be made at any time desired. Early fall, however, is the best time to plant, as it gives the plant a splendid chance to get established before winter sets in. We furnish plants with three to four shoots, and all will flower the first season after planting. A great mistake is made in planting unusually large clumps of Japanese and German Iris, as not infrequently they die out in the center of the clump during the first winter, thereby making an unsightly effect the following summer, and necessitating lifting, dividing and replanting.

JAPANESE IRIS (*Iris Kaempferi*)

Double Varieties

Gold Bound. Pure white; one of the finest.
La Favorite. Large; ground-color white, freely veined deep blue.
Mahogany. Deep, dark red, shaded maroon; most beautiful.
Mount Hood. One of the finest light blues, shaded darker blue.
Oriole. Magnificent crimson, with bright golden orange center.
Pyramid. Lilac-blue, veined white in center of each petal.

Single Varieties

Apollo. Beautiful pure white, center light pink.
H. von Sieboldt. Reddish, veined white, center bright yellow.
Lavender Queen. Beautiful deep shade of lavender.
Ondine. White, shaded light blue toward the center.
Shadow. A grand self-color, deep purple, shaded red.
Toledo. White, center light purple, one that you should not fail to grow, even in a limited collection.

Any of the above sorts, 25 cts. each, $2.50 per doz., $20 per 100

GERMAN IRIS (*Iris Germanica*)

Admiral Togo. White, faintly tinged lavender; falls and standards lightly bordered purple. Of the habit of Madam Chereau.
Brooklyn. Standards lavender, yellow at base; falls pale blue, base veined brown on a white ground.
Charles Dickens. Standards blue; falls dark blue, suffused and veined dark violet; anthers white, tipped yellow.
Florentina alba. An excellent variety for cutting and an early bloomer. Flowers ivory-white, tinged with lilac. The "orris" of commerce.
Hokanum. Standards yellow, blotched with brown; falls rich purple, flecked with white, base tinted yellow.
Lizzie. Standards pure yellow; falls dark, bronzy crimson.
Madam Chereau. Pure white, edged with azure-blue; falls deep white with blue penciling.
Mrs. H. Darwin. Very fine, large white.
Parisensis. Uprights fine blue; falls deep blue; large and very early; fine companion to Florentina alba.
Rebecca. Standards golden yellow; falls yellow and brown.

Any of the above sorts, 15 cts. each, $1.50 per doz., $10 per 100

Pallida Dalmatica. This is the grandest variety of all the German Irises. Color deep clear lavender; very large flowers, sweet-scented. This Iris should be planted largely where cut-flowers are in demand, as it is certainly the best of its class. A grand variety for massing in borders; it is superb. 25 cts. each, $2.50 per doz., $20 per 100.

LEUCOJUM VERNUM

(Spring Snowflake)

Pretty bulbous plants allied to the Snowdrop, but of much stronger and bolder habit, growing in rich soil from 1 to 2 feet high, and producing freely beautiful large white flowers, distinctly tipped with green; excellent for cutting. When once planted they take care of themselves, and should have a place in all hardy collections; can also be grown in pots. 25 cts. per doz., $1.50 per 100, $12 per 1,000.

ORNITHOGALUM

Arabicum (Star of Bethlehem). Very desirable for pot culture in the window-garden. The flowers are large, pure white, with a black center; borne on a tall spike. 10 cts. each, 40 cts. per doz., $2.50 per 100.

Umbellatum (American Star of Bethlehem). Used for naturalizing. $1 per 100, $8 per 1,000.

RANUNCULUS

Very charming, dwarf, flowering plant having flowers of various bright, attractive colors. Plant late in autumn, about 3 inches deep, and protect by straw or leaves.

French Mixed. 5 cts. each, 25 cts. per doz., $1.50 per 100.

Persian Mixed. 5 cts. each, 20 cts. per doz., $1 per 100.

Turban Mixed. Hardiest sort. 5c. each, 20c. per doz., $1 per 100.

SPARAXIS

They were formerly included in the genus Ixia, and bear a close resemblance to them, the main points of difference being that the Sparaxis are of more compact habit of growth, the flowers more bold, and somewhat larger and the flower-spikes are not more than half as high, rarely growing more than 6 inches. Especially desirable for the window garden.

Splendid Mixed Varieties. 20c. per doz., $1.25 per 100. If ordered by mail, add 5 cts. per doz. for postage.

SNOWDROPS

These elegant little flowers, the first to open in spring, should be found in every garden, not only because they are the earliest spring flowers, but because they are the loveliest. The Snowdrop thrives in almost any situation or soil, and should be planted as early in the autumn as possible, as they suffer much if left long out of the ground.

	Doz.	100	1,000
Single Snowdrops. Selected bulbs	$0 25	$1 25	$9 00
Double. Selected bulbs	35	2 00	15 00
Elwesii (Giant Snowdrops). Selected bulbs	25	1 25	9 00

STERNBERGIA LUTEA

Large, pure yellow, crocus-like flowers, which are produced with the leaves during late autumn. This is supposed by some writers to be the true lily of the Scriptures, as it grows abundantly in the vales around Palestine. 10 cts. for 3, 30 cts. per doz., $2 per 100.

TRILLIUM GRANDIFLORUM

(Great American Wood Lily)

This is one of the most beautiful American plants, perfectly hardy, growing and flowering profusely in partially shady nooks about the lawn, under trees, etc. The flowers are large, of the finest white, changing in a few days to soft rose; if grown several in a pot, it makes one of the best white winter flowers. 10 cts. each, 75 cts. per doz., $5 per 100.

Oxalis, Bermuda Buttercup

OXALIS

An unrivaled winter-flowering pot-plant of the easiest culture, succeeding with everybody

This is one of the finest flowering plants for pot culture that we have ever seen; it is such a strong, luxuriant grower that five or six bulbs will be sufficient for a 6- or 8-inch pot. Place in a dark, cool position for several days to root thoroughly, and remove to a sunny situation in the window or conservatory in a temperature of about 60 degrees Fahr., and the great profusion of bloom produced in uninterrupted abundance for weeks will astonish and delight you.

Bermuda Buttercup. This is one of the finest of the list we are offering; blooms very profusely for weeks; the color is a bright buttercup-yellow, the foliage an attractive light green. 5 cts. each, 50 cts. per doz., $2.50 per 100.

Bowiei. Bright rosy crimson; large flower; foliage very attractive. 5 cts. each, 50 cts. per doz., $2.50 per 100.

Grand Duchess. This is a California species of great beauty, dwarf in habit, flowers large and well above the foliage. White, Pink or Lavender 5 cts. each, 50 cts. per doz., $2.50 per 100.

SCILLAS (Wood Hyacinth, Siberian Squill, or English Bluebell)

Campanulata (Wood Hyacinth)

Bears spikes, 15 inches high, of bell-like flowers, during early May. Plant 5 or 6 inches deep in shady situations. Very effective for borders; will grow under fir or pine trees.

Alba maxima. Clear white, with very fine, large bells. 25 cts. per doz., $1.50 per 100, $12 per 1,000.

Blue Queen. Erect spikes of porcelain-blue flowers; strong grower. 25 cts. per doz., $1.50 per 100, $12 per 1,000.

Excelsior. Bright deep blue, with large bells. 30 cts. per doz., $1.75 per 100, $15 per 1,000.

Rose Queen. Bells of soft lilac-rose; very pretty. 30 cts. per doz., $1.75 per 100, $15 per 1,000.

Scilla Sibirica

(Siberian Squill)

Spikes 3 to 4 inches high, of small, drooping, bell-like flowers. Fine for massing in borders or naturalizing. Plant 3 to 4 inches deep. Blooms in April.

Blue. Splendid for massing. Jumbo bulbs, 30 cts. per doz., $1.75 per 100, $15 per 1,000.

White. A variety sometimes used for interspersing with the blue sorts. 25 cts. per doz., $1.50 per 100, $12 per 1,000.

Scilla nutans

Arching spikes, with drooping, bell-like flowers. Fine for naturalizing. Plant 5 to 6 inches deep. May flowering. Height 15 in.

Blue (The English Bluebell). Dark violet-blue. 20 cts. per doz., $1 per 100, $8 per 1,000.

White. White variety of the above. 20 cts. per doz., $1 per 100, $8 per 1,000.

Rose Queen. Beautiful shade of lilac-rose. 25 cts. per doz., $1.50 per 100, $10 per 1,000.

PUSCHKINIA SCILLOIDES

A hardy bulbous plant of great beauty; flowers white, striped with pale blue, on spikes. It succeeds well in pots for winter blooming, and is admirably adapted for edgings, flowering in April and May. Height 4 to 8 inches. 20 cts. per doz., $2.25 per 100.

ZEPHYRANTHES (Fairy Lily)

A splendid pot-plant for winter and early spring culture.

	Each	Doz.	100
Rosea. Rose-pink flowers, 3 inches across	$0 10	$0 75	$5 50
Candida. Pure white; fragrant	10	75	5 50

HERBACEOUS PEONIES

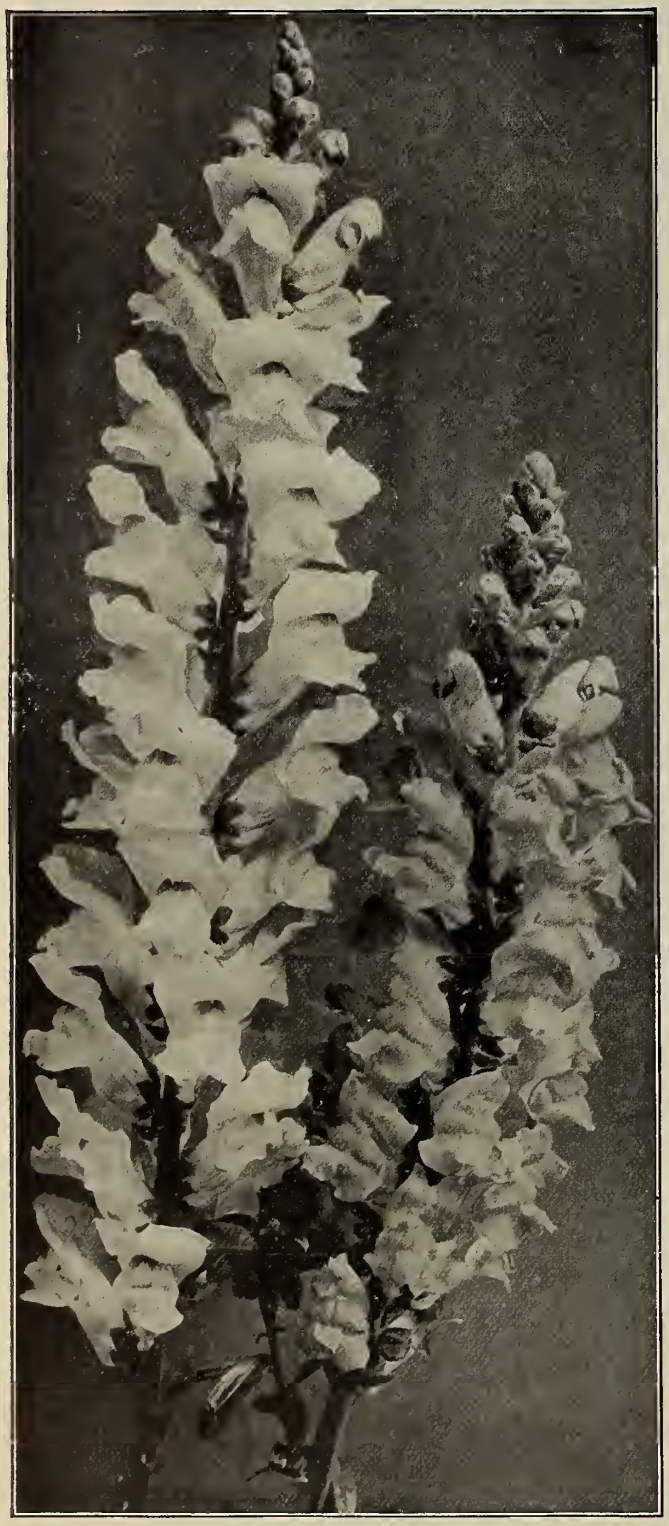
TWENTY MODERN VARIETIES

Peonies rank among the most beautiful of all hardy perennials, and no garden is complete without their charming influence. The popular interest in many parts of the world has brought a very gratifying improvement in the Peony. In the newer sorts gigantic flowers have been produced, reaching, in many instances, the large size of 7 to 9 inches in diameter and 5 to 6 inches in depth, with strong, stiff stems 2½ to 3 feet long. The permanency of the Peony should especially recommend them to your favor; for, once planted in suitable soil, they will continue to grow better and larger each year.

	Strong 2-yr.-old roots		Strong 3-yr.-old clumps	
	Each	Doz.	Each	Doz.
Alba plena. Immense, pure white flowers; of robust habit and a very free bloomer	$0 35	$3 50	$0 50	$5 00
Berlioz. (Crousse.) Brilliant dark red, tinted rose; flowers very large size, imbricated. A fine dwarf grower; excellent keeper	50	5 00	75	7 50
Candidissima. (Calot.) Large, cream-white guard petals; center sulphur-yellow, with green heart, very full and compact; habit slightly drooping. The earliest of the white- and-yellow varieties	35	3 50	50	5 00
Couronne d'Or. (Calot.) Large, flat, semi-rose type; pure white, with a ring of yellow stamens around a tuft of center petals, tipped carmine. Medium tall, vigorous grower and free bloomer. Late	50	5 00	75	7 50
Duchesse de Nemours. (Calot.) Guard petals white, center lemon-yellow with greenish reflex. Large, cup-shaped, full bloom; fragrant	75	7 50	1 25	12 50
Duc de Wellington. (Calot.) Very large, well formed, sulphur-white bloom; habit ideal; stems very firm and long. Strong grower; very fragrant. Scarce	75	7 50	1 25	12 50
Edulis superba. (Lemon.) Large, loose bloom of dark pink of even color, flat when fully open; fragrant; upright, strong-growing plant. Early.	75	7 50	1 25	12 50
Festiva maxima. (Miellez.) In some respects this is yet a peerless flower—Queen of the Whites. Though introduced more than fifty years ago, it is almost impossible to supply the demand. It is an immense white flower, with drops of carmine sprinkled in the center. An early bloomer and a good keeper	50	5 00	85	8 50
L'Indispensable. Lilac-white, shading to pale violet-rose toward the center	1 00	10 00	1 50	15 00
Lady Bramwell. Although of unknown origin, a splendid Peony. Beautiful early flower of glossy pink; very fragrant	$0 50	$5 00	$0 75	$7 50
Louis Van Houtte. (Calot.) Rich, glowing purplish pink, tipped with silver; very brilliant coloring; fragrant, medium-large flower	50	5 00	75	7 50
Mme. Chaumy. (Calot.) Globular; soft pink, much like Lady Bramwell, only larger and later	50	5 00	75	7 50
Mme. de Verneville. (Crousse.) Very full bloom, sulphur-white, broad guard petals	75	7 50	1 25	12 50
Meissonier. (Crousse.) Globular; brilliant purplish red; slightly fragrant; free bloomer; stems long; habit of plant medium tall	75	7 50	1 25	12 50
Monsieur Barral. (Calot.) Very large, compact, rose type; uniform, pale lilac-rose; fragrant; free bloomer	75	7 50	1 25	12 50
Mons. Jules Elie. (Crousse.) Immense, globular, full flower, imbricated rosiform; broad petals of finest, glossy, flesh pink, deeper tint at base of the petals	1 00	10 00	75	7 50
Queen Victoria. Large, full, compact bloom, with fine, broad guard petals; opens flesh-white, center petals tipped with red blotches. One of the best cut-flower varieties, as it is an exceptional shipper and keeper	50	5 00	75	7 50
Rosea grandiflora. Beautiful pale rose; large, globular flower; very fragrant	50	5 00	75	7 50
Rubra triumphans. (Guerin.) Very early; bright purplish crimson; large flower. Often blooms single the first year	50	5 00	75	7 50
Van Dyck. (Crousse.) Large, globular, loose-crown flower; guard petals and center pure mauve, collar cream-white. Erect grower; blooming in midseason	50	5 00	75	7 50

Flower Seeds for Autumn Sowing

NOTE. For Perennial Flower Seed see our Midsummer Catalogue. Free on request



Antirrhinum, Giant-flowering

ANTIRRHINUM (Snapdragon)

TALL VARIETIES

	Pkt.	¼oz.
Giant Coral-Red. Very pretty and attractive shade	$0 10	$0 35
Giant Blood-Red. Very beautiful shade	10	35
Giant White. Excellent cutting variety	10	35
Giant Yellow	10	35
Giant Queen Victoria. A very large white	10	35
Giant Rose Dore. A lovely new shade, a pretty self-salmon-rose	10	35
Giant Fairy Queen. Rich orange-salmon, with white throat	10	40

DWARF VARIETIES

Snowflake. New. Splendid pure white	25	75
Golden Queen. Yellow	10	25
Queen of the North. White. An excellent bedding variety	10	25
Crimson King. Deep crimson	10	25

ASPARAGUS

Plumosus nanus. Graceful, fern-like foliage; grown extensively by florists for decoration. **Full Greenhouse Grown.** Pkt. 25 cts., 100 seeds, $1.

Sprengeri. Of more drooping and coarser habit; excellent for hanging-baskets. Pkt. 25 cts., oz. 75 cts.

BELLIS PERENNIS (Double Daisy)

Our strain of this popular flower is grown by a specialist in France, and for size cannot be excelled.

	Pkt.
Giant-flowering Pink	$0 25
Giant-flowering White	25
Double Red, Quilled	25
Double Selected, Mixed	25

CALCEOLARIA

The strains of this beautiful decorative pot-plant are grown by a famous English Calceolaria Specialist, and are the finest in existence.

	Pkt.
S. & W. Co.'s Giant Strain	$0 50
S. & W. Co.'s Giant Prize Strain	50
Rugosa, Mixed. Shrubby. Small-flowering varieties for bedding	50

CALENDULA OFFICINALIS FL. PL.

(Pot Marigold)

	Pkt.	½oz.	Oz.
Meteor. Double; yellow striped with orange	$0 05	$0 15	$0 25
Prince of Orange. Similar to Meteor, but much darker	05	15	25
Sulphurea fl. pl.	05	25	40

CALLIOPSIS

	Pkt.	½oz.	Oz.
Drummondii (Golden Wave). Rich golden yellow	$0 05	$0 20	$0 35
Tinctoria marmorata. Marbled yellow and brown	05	20	35

CANDYTUFT (Iberis)

	Pkt.	Oz.
Giant Hyacinth-flowered. Immense, pure white spikes; when grown in rows for cut-flowers best results can be obtained only by setting the plants at least a foot apart in the rows and 1½ feet between the rows	$0 25	$2 00
Empress. Pyramidal, pure white	10	50
Queen of Italy. Light pink	10	50
Lilacina. Beautiful large-flowering lilac	05	25
Crimson. Bright crimson-red	05	25

CORNFLOWER (*Centaurea Cyanus*)

This favorite flower is frequently grown under glass for Christmas flowering. Sow by September.

	Pkt.	Oz.
Emperor William. Well-known blue	$0 05	$0 25
Rose. Delicate rose	05	25
White. Pure white	05	25
Double Emperor William. A variety largely used by commercial florists on account of its large-sized and double flowers	15	1 50

GIANT SWEET SULTAN

(*Centaurea imperialis*)

Our strains of Sweet Sultans are grown by a great many florists and gardeners, and are pronounced *par excellence*. Splendid for forcing under glass.

	Pkt.	¼oz.
S. & W. Co.'s Pure White. One of the best varieties for cutting; large and deliciously sweet-scented	$0 10	$0 35
Armida. Pink with white tinge	10	35
Lilacina. Delicate lilac	10	35
Purpurea. Purple-rose	10	35
Rosea. Brilliant deep rose	10	35

Four Fine Centaureas (For Greenhouse Growing)

The following four varieties are largely grown by florists during the winter months for cut-flowers.

	Pkt.	Oz.
Suaveolens. (Yellow Sweet Sultan.) Very showy, bright yellow flowers; sweetly scented	$0 05	$0 60
Odorata. Beautiful large flowers of light blue, deliciously scented	10	1 00
Odorata, Chameleon. Large flowers of pale sulphur-yellow, changing to rosy lilac	10	2 00
Marguerite (Giant White Cornflower). Flowers 4 inches across, purest white and very fragrant	10	1 00

CINERARIA

Seed should be sown from May to September where a succession is desired. When sown at this time, fine plants may be secured. The main point in the culture of Cinerarias is to secure as hardy a growth as possible with leaves of medium size. Seed may be transferred direct from seed-pans to thumb-pots. After planting, place in cold-frame facing north, if possible. As pots become full of roots, shift to larger ones until flowering size is reached.

S. & W. Co.'s Giant Prize Mixed. This strain of Prize Cineraria is grown for us by a famous English seed specialist. The flowers seldom measure less than 3 inches in diameter, comprising the following colors: White, rose, flesh, crimson, blue violet, etc. The plants are of a very robust, dwarf habit, which, combined with the mass of giant blooms, makes this strain exceedingly valuable. Pkt. $0 50

S. & W. Co.'s Stellata. Delicate star-like blooms are borne in great profusion on long stems, giving this variety a double use, as it is excellent for cutting as well as decorative purposes; all shades. Pkt. 50

LUPINUS (Annual Lupin)

Blooms in six to eight weeks after sowing; valuable for cutting; seeds sown in greenhouse during the late summer and fall months will produce an abundance of bloom for winter.

White, Rich Blue, Sky-Blue and **Rose.** Pkt. 5 cts., oz. 30 cts.

MIGNONETTE (Greenhouse-grown)

S. & W. Co.'s Triumph. This Mignonette is one of the choicest varieties for winter forcing. In type similar to Allen's Defiance, except that spikes are more compact and the individual florets are much larger in size. Seed of this grand variety is grown at our greenhouses, and is saved from the best spikes. Pkt. 50 cts.

Allen's Defiance. A popular variety for indoor culture. Very fragrant; fine for cutting. Pkt. 10 cts., oz. $2.

Giant Sweet Sultan (Centaurea imperialis)

GIANT-FLOWERING CYCLAMEN

Flowers of extraordinary size and of great substance. The leaves are proportionately large and beautifully marked. These are among the most beautiful winter- and spring-flowering plants for the window and greenhouse. Not only are the flowers of striking beauty, but the foliage is also highly ornamental. Sow seed from August to September, and do not permit the seedlings to become checked. When grown cool, most satisfactory results are obtained. Our strain is selected by a well-known English Cyclamen grower.

S. & W. Co.'s Giant Strain

Giant Salmon-Red
Giant Rose
Giant Pure White
Giant Dark Red
Giant Lilac
Giant Cattleya Purple
Giant Rose-Salmon
Giant Pale Rose
Giant White. Red eye.
Giant Light Red
Giant White. Striped violet.
Giant Prize Mixed

Pkt. 25 cts., 100 seeds $1.25

S. & W. CO.'S Victoria. Beautiful, fringed, white and rose flowers. Pkt. 25 cts., 100 seeds $1.50.

MYOSOTIS (Forget-me-not)

All the varieties of these popular plants are very beautiful and general favorites with all; they succeed best in a moist situation. Half-hardy perennial. 1½ feet.

	Pkt.	Oz.
Alpestris. A pretty trailer with blue flower	$0 05	$0 60
" **Eliza Fonrobert.** Sky-blue	10	1 00
" **Victoria.** Dwarf habit; sky-blue	25	1 50
Oblongata perfecta. Flowers borne on long spikes; very suitable for winter blooming	10	1 25
Palustris (True Forget-me-not)	10	3 00
" **semperflorens.** Continuous bloomer	10	2 50
Finest Mixed	05	60
Ruth Fischer. The latest and said to be the finest and largest-flowered Forget-me-not yet sent out, producing flowers up to ½ inch in diameter, of true Forget-me-not-blue; plants of strong, vigorous growth, of exceptional value for pot culture and spring bedding	25	

PRIMULA (Primrose)

The strains of Primula offered below are specially grown for us by a famous English Primula specialist and are selected from the finest and best-developed plants. Seed sown in April will bloom during early winter; August for spring blooming. Sow in shallow pans, in soil consisting of part sand and leaf-mold worked through a fine sieve and allow for good drainage. Cover seeds lightly and water frequently; give a temperature of about 65 degrees.

PRIMULA SINENSIS (Chinese Primrose)

This beautiful Chinese Fringed Primrose is indispensable for spring decoration in the home or conservatory, and ranks as one of the most important winter-blooming pot-plants grown by the florist. Our Giant Fringed strain is of the highest merit, and is carefully selected.

Stumpp & Walter's Co.'s Giant Primulas

Giant Magnifica, Blue
Giant Crimson
Giant Rose Queen
Giant Ruby Queen
Giant Salmon
Giant White Fern-leaved
Giant Mixed

Pkt. 75 cts.; collection of 6 pkts. $4.25

Giant Double White
Giant Double Princess of Wales, Striped
Giant Double Blue
Giant Double Rosy Pink
Giant Double Salmon-Pink
Giant Double Mixed

Pkt. 75 cts.; collection of 6 pkts. $4.25

Primula obconica gigantea

This type of Primula outrivals the old Obconica type, the flowers being considerably larger, often measuring 1½ inches in diameter.

	Pkt.		Pkt.
Kermesina. Rich crimson.	$0 25	**Lilacina.** Lilac	$0 25
Rosea. Rose	25	**Mixed.** Pure white to crimson	25
Alba	25		

Schizanthus Wisetonensis

S. & W. Co.'s Giant Primula

PRIMULA STELLATA

A very pretty form, with large heads of star-shaped flowers of various colors; a splendid type for decorative purposes.

Giant White Star **Giant Crimson Star** **Giant Rosy Star**
Giant Salmon-Pink **Giant Blue Star** **Giant Mixed**

Pkt. 75 cts.; collection of 6 pkts. $4.25

Forbesi (Baby Primrose). This is the freest-flowering Primula we know of. The little plants throw up tiny flower-stalks when only a few weeks old. These should be pinched off and the plants kept growing until October, and from then on until late in spring they produce their sprays of beautiful rosy lilac flowers in seemingly never-ending profusion. Pkt. 25 cts.

Kewensis. This new variety is most attractive, with pleasing bright yellow flowers borne on long stems. It is delightfully fragrant and stands well as a house-plant. Pkt. 25 cts.

Primula malacoides (The Giant Baby Primrose). The flowers measure ½ to ¾ inches across, and the plants branch every freely. The flowers are of a pretty light lilac, are borne in whorls on stems which are graceful and strong. If grown in a greenhouse can be had in bloom in four or five months after sowing. A most delightful plant for table decoration. Pkt. 25 cts., 5 pkts. $1.

Primula malacoides alba. This beautiful new variety is a welcome addition to this type of Primula. All those who have grown the white Malacoides have been pleased, making this variety a strong favorite. Makes a charming combination with the lilac form. Pkt. 25 cts., 5 pkts. $1.

SCHIZANTHUS

(Butterfly or Fringe Flower)

These dainty plants are of easy culture in any good garden soil. They are also useful as pot-plants for spring flowering, the seed being sown in early fall and the plants kept in a light house and given plenty of room as they need it.

Wisetonensis. A variety largely used as a pot-plant for the house or conservatory. It is remarkably free-flowering and presents a beautiful appearance, with its myriads of blooms, the ground-color of which is white, dotted with delicate rose. Pkt. 25 cts., 5 pkts. $1.

Dwarf Hybridus grandiflorus. New. A very popular strain of this well-known showy annual: plants grow 12 inches in height, of compact and pyramidal habit, with a great range of colors, bright and handsome. Splendid for border planting. Pkt. 25 cts., 5 pkts. $1.

Mixed. A splendid mixture of the regular type. Pkt. 10 cts.

Winter-Flowering Beauty Stocks

A magnificent, recently developed strain of early-flowering Winter or Brompton Stocks, forming much-branched plants about 2 feet high, and having numerous spikes of very large, double, delightfully fragrant flowers; they are of special value as pot-plants for greenhouse decoration and for cutting during the dull winter months; for this purpose seed should be sown from July to September.

	Pkt.
Beauty of Nice. Delicate pink	$0 25
Crimson King. Rich blood-crimson	25
Empress Augusta Victoria. Rich blue	25
Empress Elizabeth. Rich deep rose	25
Mont Blanc. Purest white	25
Queen Alexandra. Beautiful lilac	25
Sulphur King. Rich yellow	25

Winter-Flowering Sweet Peas

CULTURE.—A great mistake is often made in sowing Winter-flowering Sweet Peas too thickly. An ounce should be sufficient for a row 25 feet long; thin out to 3 inches apart. Sow the first week in September for Christmas flowering. For January, February or March, end of September. Best results can be obtained by maintaining a night temperature of 40° to 45°, and 50° to 55° in the daytime. Spray vines frequently to keep down red spider, thrip and green fly. Feed when plants are in full bloom.

Yarrawa. This new Winter-flowering Sweet Pea was first exhibited at the International Flower Show in New York, March, 1914, and created quite a sensation among all Sweet Pea lovers. It originated in Australia, and is a sport from a summer-flowering Spencer variety. It retains the heavy foliage and strong growth of the summer-flowering Spencer, with the added feature of earliness of bloom. It has been grown to the height of 10 feet under glass, flowering uninterruptedly for several months. Seed sown late in September begins flowering at Christmas-time. The flowers are large, and the general tone of the flower a bright rose-pink. **Pkt. of 12 seeds, 25 cts., 5 pkts. $1.**

WINTER-FLOWERING SPENCERS, MIXED. A mixture of the Winter-flowering Spencer Sweet Peas, including excellent shades of pink, white, crimson and lavender. **Pkt. of 12 seeds, 25 cts., 5 pkts. $1.**

GENERAL LIST OF CHRISTMAS-FLOWERING SWEET PEAS

S. & W. Co.'S EARLIEST WHITE. The earliest white on the market, often blooming in six weeks from sowing.
S. & W. CO.'S CHRISTMAS PINK. If sown by September 1 under glass, flowers may be cut from Thanksgiving to Christmas.
S. & W. CO.'S CHRISTMAS WHITE. This variety is grown very extensively by leading florists, and sold in large quantities.
Christmas Captain. Blue and purple.
Christmas Meteor. Scarlet.
Earliest Sunbeam. Pale primrose-yellow.
Florence Denzer. Pure white.
Le Marquis. This is the same color as Princess of Wales violet. Large flowers.
Mrs. E. Wild. Carmine or dark pink.
Mrs. Alex. Wallace. Bright lavender; a very popular sort.
Mrs. William Sim. Salmon-pink.
Mrs. W. W. Smalley. Satiny pink.
Mrs. Hannan. Deep rose-pink of a very pleasing shade; medium flower.
Mrs. F. J. Dolansky. Daybreak-pink.
Mrs. Charles Totty. Sky-blue; late.
Snowbird. Early; white.
W. J. Stewart. Bright blue.
Watchung. Pure white; tall grower.

Any of the above, pkt. 10 cts., oz. 30 cts., ¼lb. $1

Stock, Queen Alexandra

SWEET PEAS FOR FALL SOWING OUTDOORS

For our patrons who desire a list of the best varieties of Sweet Peas for outdoor sowing in the fall, the following varieties are recommended:

	Pkt.	Oz.	¼lb.
ASTA OHN. A beautiful, soft pinkish lavender self, and one that finds its way into all exhibition collections	$0 10	$0 35	$1 25
AURORA SPENCER. Flowers white, mottled and flaked with bright orange-pink	10	35	1 25
BLANCHE FERRY SPENCER. Giant flower of Spencer form, with rose standard and white wings	10	30	1 00
CAPTAIN OF THE BLUES SPENCER. Bright purple, margin of the petals are marbled	$0 10	$0 35	$1 25
COUNTESS SPENCER. A deeper pink than Elfrida Pearson, with few rivals	10	30	1 00
FRANK DOLBY. A lovely light lavender-blue, one of the best in its color; bold, wavy standard and widely spreading wings	10	25	75
GLADYS UNWIN. A bold flower, with a striking, upright standard which is crinkled and waved; broad wings. Lovely light pink.	10	25	75
HELEN LEWIS. Quite the best of the large-flowered orange-pinks	10	35	1 25
KING EDWARD SPENCER. Seems to stand well in the ranks of good crimsons	$0 10	$0 35	$1 25
OTHELLO SPENCER. A large and distinct dark maroon	10	30	1 00
PRIMROSE SPENCER. The finest primrose; our stock is an extra-selected strain	15	50	1 50
THOMAS STEVENSON. A very striking variety of brilliant orange-scarlet; flowers of large size and excellent Spencer form; one you should grow, however limited your collection may be	20	60	2 00
WHITE SPENCER. A splendid white, of fine exhibition form	10	30	1 00

FIELD-GROWN VIOLET CLUMPS

Price, Double or Single, $2 per doz., $12 per 100

Marie Louise. Double. The finest double blue.
Princess of Wales. Single. Soft violet-purple; very fragrant.
La France. Single. Rich violet-blue; a strong grower and very free-flowering; deliciously scented.

Vegetable Seeds for Autumn Planting

BEANS

S. & W. Co.'s Wonder. The finest forcing Bean. Of good color, fine flavor and everything that can be expected in a good table Bean. One of our customers says regarding this Bean: "The Beans you gave me to try are a wonder. I sowed them February 3, in a solid bed without bottom heat, and picked from them March 20. The Beans average 5 to 6 inches, the vine is a very abundant bearer, and as for eating, I think it is the best Bean I have ever eaten." ½pt. 20 cts., pt. 35 cts., qt. 60 cts., ½pk. $2, pk. $3.75.

Triumph of the Frames. A good variety for forcing or early outdoor work. Produces a mass of pale green pods, tender and delicious. Pt. 25 cts., qt. 45 cts., ½pk. $1.50, pk. $2.75.

French Forcing Dwarf Emerald. Dwarf, prolific; especially suited for frame culture. Pt. 40 cts., qt. 75 cts., ½pk. $2.50, pk. $4.50.

BEET

Detroit Dark Red. Extended experience has shown that this Beet comes nearer the ideal than any. Pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts., lb. $1.50.

CARROTS

Early French Forcing. The earliest variety and the one largely grown for forcing purposes. It makes a small, almost globe-shaped root of an orange-red color. Per pkt. 15 cts., oz. 30 cts., ¼lb. $1, lb. $3.50.

Early Scarlet Globe and French Breakfast Radishes

CRESS, or PEPPER GRASS

This is sown frequently throughout winter months in succession, and is a very popular salad. Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts., lb. $1.

CUCUMBER English Forcing Varieties

S. & W. Co.'s Improved Telegraph. A very dark green type of Telegraph Cucumber, which we have found, from our trials, to be superior to all other Telegraph varieties. Pkt. 25 cts.

Royal Osborne. Prolific and of deep, rich green color. Pkt. 25 cts.

Carter's Model. A very handsome variety, of fine form, with general characteristics of Tender and True, with the prolific habit and strong constitution of the Telegraph. Pkt. 25 cts.

Lord Kenyon's Favorite. A very fine variety. Pkt. 25 cts.

LETTUCE

May King. One of the best early varieties for planting in the open ground or under glass. It is rapid in development; tender, large size, outer leaves well folded in. The heads are of a clear, light green, the outer leaves slightly tinged brown and the heart clear yellow; delicately flavored. Pkt. 5 cts., oz. 20 cts., ¼lb. 60 cts., lb. $1.75.

Grand Rapids Forcing. An excellent loose-headed variety of superior table quality. Adapted to open-air culture or forcing in frames or greenhouses. The leaves are finely cut and of a beautiful pale green. Plants may be set quite closely together. Large heads and of delicate flavor. Pkt. 5 cts., oz. 15 cts., ¼lb. 40 cts., lb. $1.25.

MUSKMELON Frame or Greenhouse Varieties

Royal Jubilee. A splendid, oval, green-fleshed melon, raised at the Royal Gardens, Windsor. Skin almost white, handsomely netted. Forcing Muskmelons are grown very extensively in England, and are always in great demand. The flesh is tender and of the most exquisite flavor, while the seed-cavity is small, and the melons ripen evenly clear to the skin. One of our patrons grew this melon, and produced them *weighing nine pounds*. Our own seed, saved from specimen fruits. Pkt. of 25 seeds, 50 cts.

	Pkt.
Sutton's Invincible Scarlet Flesh	$0 25
Blenheim Orange	25
Eastnor Castle Green Flesh	25
Sutton's Perfection Pale Green Flesh	25
British Queen	25

MUSTARD

White London. The best variety for salads; the seed is also used medicinally and as a seasoning for pickles. Oz. 5 cts., ¼lb. 10 cts., lb. 25 cts.

RADISH

Triumph Scarlet-striped Forcing. A very desirable addition to our forcing sorts. The roots are about the size and shape of Scarlet Turnip White-tipped, but are creamy white, beautifully marked with spots and dashes of carmine. Pkt. 10 cts., oz. 15 cts., ¼lb. 40 cts.

Early Scarlet Globe. Of distinct shape, brilliant color, short-leaved, crisp and white; an excellent variety for forcing. Pkt. 5 cts., oz. 15 cts., ¼lb. 50 cts., lb. $1.50.

French Breakfast. A favorite sort; mild and crisp. Pkt. 5 cts., oz. 10 cts., ¼lb. 25 cts., lb. 75 cts.

SPINACH

S. & W. Co.'s New York Market. This Spinach grows rapidly and produces unusually large, thick, crumpled leaves. The best in flavor and the leaves are very tender. Pkt. 10 cts., oz. 20 cts., ¼lb. 50 cts., lb. $1.50.

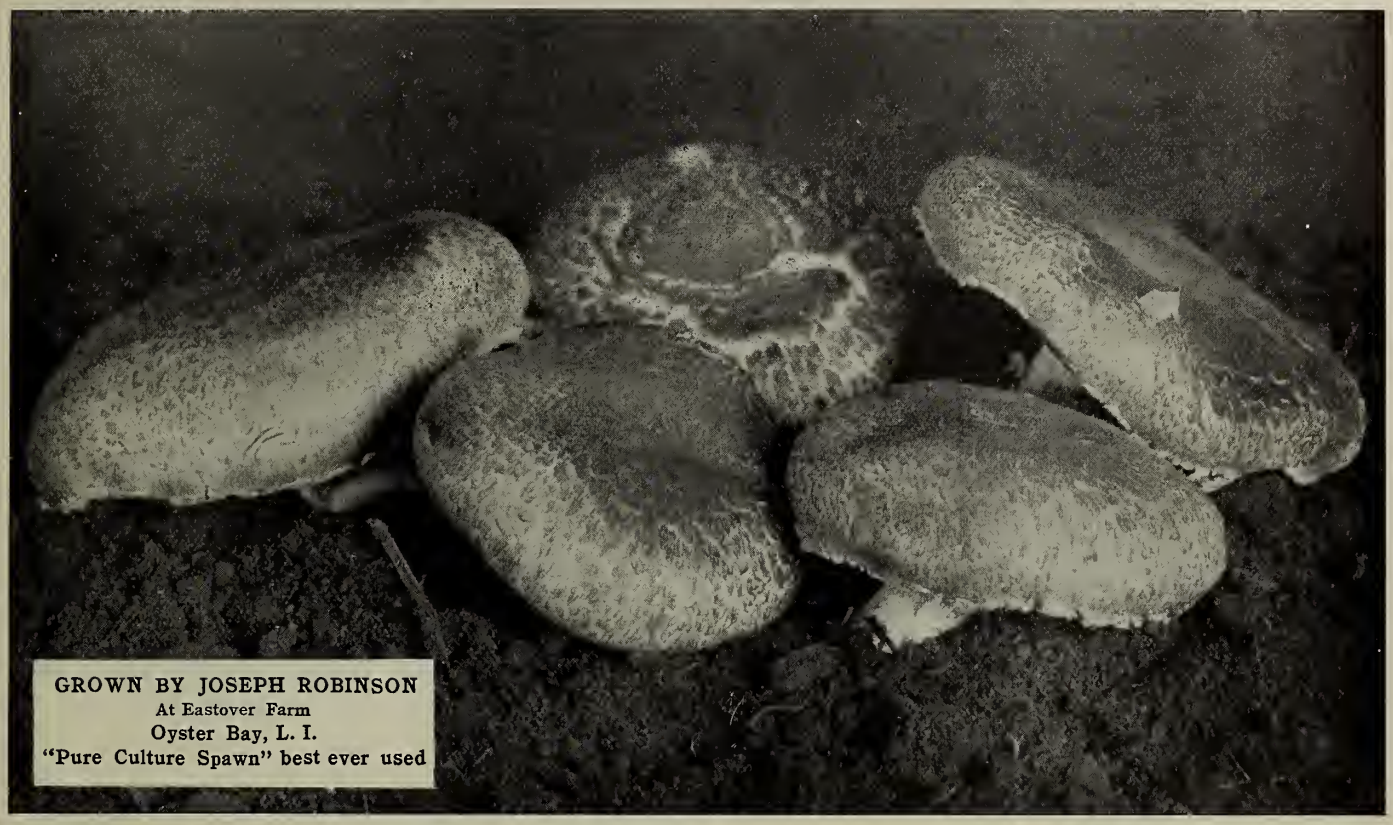
TOMATO (For Forcing)

S. & W. Co.'s Best of All. Pkt. 15 cts., ¼oz. 75 cts., oz. $2.50.

Comet. Pkt. 10 cts., ¼oz. 50 cts., oz. $1.50.

Stirling Castle. Pkt. 15 cts., ¼oz. 75 cts., oz. $2.25.

Bucks' Tresco. The disseminator of this variety (Bucks of England) claimed that it would revolutionize the Tomato Industry. This has been demonstrated wherever it has been tried this past year. Every grower of Tomatoes for forcing should not hesitate to grow Bucks' Tresco. It is medium in size, proper in shape, of delicious flavor and a wonderful cropper. Pkt. of 25 seeds, 25 cts., 5 pkts. $1.



S. & W. Co.'s Pure Culture Mushroom Spawn

Pure Culture is superior in **size, quality and quantity of production**; it is no longer an experiment; the best growers are using **it**

Brief Cultural Directions by Mr. Robinson

"I have the fresh horse droppings saved until a sufficient quantity accumulates to fill the beds, occasionally turning the manure and watering it slightly if it appears to be not moist enough. Then I leave the mass for three days, after which I again turn it, adding more water if necessary. After turning, I firm the manure, and in three days again repeat the operation. The most particular part is to get the manure moist enough and yet not too moist. After the second turning the manure is generally ready for the bed. My beds are only 10 inches in depth. I press in the manure very firmly, and cover slightly with salt hay or straw, which tends to retain the moisture in the bed. When the temperature of the bed drops to 85°, I insert the "Pure Culture" Spawn in pieces about the size of an egg, 1 foot apart one way and 9 inches the other. I insert the Spawn just deep enough to cover with a little manure. I keep the temperature of the house between 55° and 60°, and occasionally dampen the walls, etc., as required; also occasionally "dew" over the hay covering the bed with warm water. If the Spawn runs properly, a white, frothy substance will be observed in about ten days or two weeks. I then remove the hay and cover with one inch thickness of sifted soil, preferably good pasture loam, firming it down. Mushrooms will generally appear in from six to eight weeks. I always have a little finely sifted soil on hand, and fill all the holes up after gathering the Mushrooms—that is, the holes made by removing the stalks. With good care the bed will last three months. Should it appear dry, water thoroughly with water heated to 90°, in which a pinch of nitrate of soda dissolved will be found very beneficial. In conclusion, I may say I think most of the failures in Mushroom-growing arise from the manure being too dry."—Joseph Robinson.

American Pure Culture Spawn

10 lbs. will spawn 10 square feet

This type produces larger Mushrooms than the English, coming into bearing somewhat earlier, and continuing to crop for a long time. This spawn is produced by selecting spores from individual specimen Mushrooms, and is propagated and transferred to the bricks of manure, which, when planted, produce Mushrooms all of one type.

Per Brick (about 1½lb.) 30 cts. **Per 10 Bricks,** $2.40.
Per 25 Bricks, $5. **Per 100 Bricks,** $15.

Best English Spawn

Fresh from a celebrated maker in England. Made in bricks of about 1 pound each.

Per Brick (about 1 lb.) 20 cts. **Per 10 Bricks,** $1.80.
Per 25 Bricks, $3.75. **Per 100 Bricks,** $12.

Books on Growing Mushrooms

Pamphlet (gratis for a postal card asking for it).....

Mushrooms, How to Grow Them. By Wm. Falconer. The best and most practical American work on growing for home use or for market.....$1 00

Mushroom Culture. By W. Robinson, England's standard authority on the subject..... 50

Mushroom, or Hotbed Thermometers

Heavy Brass Point style $1.50.
All copper. Point may be removed and cleansed, $2.
Thermometers should, whenever possible, be sent by express.

VEGETABLE ROOTS FOR WINTER FORCING

Asparagus Roots (Ready in October)

Asparagus can be forced readily in boxes under greenhouse benches, or in almost any out-of-the-way place where bottom heat may be had. They require plenty of moisture after they have started, and should be subject to a slight freezing before planting, so as to have them force more readily.

Extra-Large Clumps, Barr's Mammoth and **Conover's Colossal, $1.50 per doz., $10 per 100, $90 per 1,000.**

Asparagus

Rhubarb Roots (Ready in October)

Rhubarb may be had in winter as well as in the spring. The clumps should be extra large, and may be planted in good garden soil in a cellar which is quite dark. A headless barrel or peach-basket with the bottom removed should be placed over them so as to draw the tops up. Clumps should be placed quite close together. Three or four clumps of the size offered would be sufficient for each barrel. May also be grown under the greenhouse benches in soil.

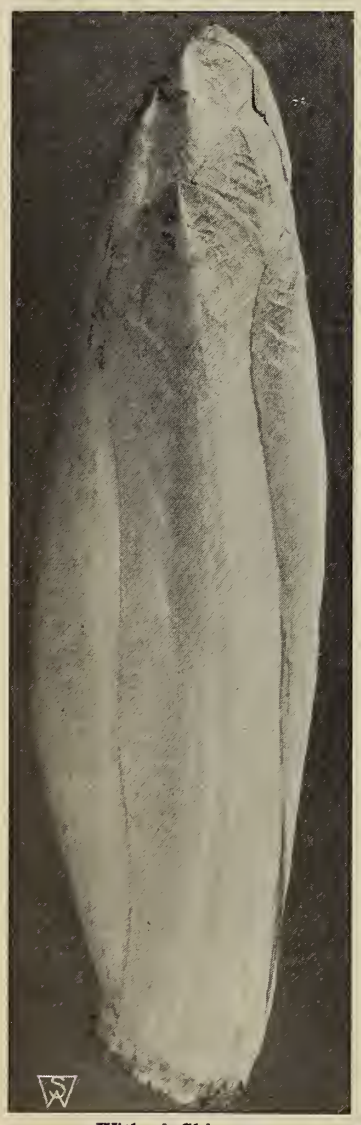
Rhubarb will force more quickly if exposed to a slight frost before taken indoors.

Extra-large Clumps, Giant Crimson Winter, 25 cts. each, $2.50 per doz., $15 per 100.

Sea Kale Roots (Ready in November)

Sea Kale is almost unknown in America, but considered quite a delicacy in Europe. It is one of the most succulent and edible vegetables known, and can be forced like rhubarb, or grown in the open ground and protected so that it will bleach. In form and flavor it is not unlike celery, though it is not eaten raw, but boiled and served with drawn butter. We are growing some specially fine stock for this winter. The directions for forcing and preparation for table use of Sea Kale roots is much the same as that outlined for Witloof Chicory, on this page.

Extra-selected Forcing Crowns, 15 cts. each, $1.50 per doz., $10 per 100, $90 per 1,000.



Witloof Chicory

Witloof Chicory Roots

FRENCH ENDIVE (Ready in November)

Cultural Directions for Witloof Chicory, or French Endive, by an Enthusiastic Amateur

"The cultural information regarding this king of salads is so varied and misleading in the seed catalogues, I thought it might be interesting to 'our folks' to know how it can be very successfully grown in the home garden, with but little more trouble than any other root stock and not so much trouble as with celery. Sow the seed as soon as the ground is warm, or when you sow parsnips, in rows 15 inches apart, and thin out to 5 or 6 inches just as you would parsnips, and in the fall, when the roots like carrots and beets are being taken up for winter use, take up the Endive, cut the leaves off about 1 inch above the crown. Cut off the roots to a uniform length; I have them 8 inches long. Have boxes 16 to 18 inches deep, and set roots 1½ to 2 inches apart in these, in good garden soil, just to the crown. This will leave the crowns about 8 inches from the top of the box. Fill up with sand, and set in a warm cellar or any place where growth will start, and in about four weeks it will be ready for use. As freezing does not injure these roots before growth starts we have boxes that hold about a dozen roots, and leave them in the barn or anywhere where it is so cold they will not grow, and bring them in the cellar as we want it. This keeps up a succession, and in taking up does not injure the crowns as it would if they were put in larger boxes. The roots resemble parsnips. Of course the larger the roots the larger the stalks will be. The culture up to digging in the fall is just the same as for parsnips. I am an amateur, but have been very successful with this for the past four years, as ours surpasses any eaten in the best hotels of New York."

Preparation of Witloof Chicory, or French Endive, for the Table

Witloof Chicory may be prepared to be eaten in many ways:

As a Salad.—In its raw state, it may be used as a salad, with the ordinary dressing of olive oil, vinegar, pepper and salt, to which is sometimes added tarragon and chervil; with a mayonnaise dressing, or mixed with potato, in a salad form. In all these cases the flavor of the Witloof will dominate and give a piquant taste that other salads do not possess.

As a Cooked Vegetable.—Witloof is also prized as a cooked vegetable. The plants are taken as a whole, a few of the outer leaves removed, and soaked in water for about one hour in order to remove all sand that may have remained between the leaves.

When thoroughly clean, boil the plants twenty to thirty minutes, according to size, and put them in a sifter to strain so that most of the water drains out of them. They should be then placed in a pan, with fresh butter, and allowed to simmer on a very smooth fire for about thirty minutes; stir slowly from time to time, and serve warm.

It is also recommended that, instead of using butter, you can dissolve a teaspoonful of beef tea in as little boiling water as possible, and use as directed above. Some will also use the gravy of a roast (beef, mutton or any kind of poultry) and use it instead of butter.

All of the receipts will serve to make a delicious dish quite new to most and very palatable and wholesome.

Extra-selected Roots for Winter Forcing, 15c. each, $1.50 per doz., $10 per 100, $90 per 1,000.

STAIGREEN LAWN SEED

How About Your Lawn ?

25-Pound versus 14-Pound LAWN SEED

Many low-price Grass Seed mixtures weigh only 14 pounds per bushel. This indicates either a good proportion of chaff or some of the real good varieties in the rough state, not properly cleansed so as to leave only the vital part and less of the chaff or shell.

In other words, so many less seeds to the quart or pound that will germinate and grow real grass.

Why Not Buy the Re-cleaned Kind?

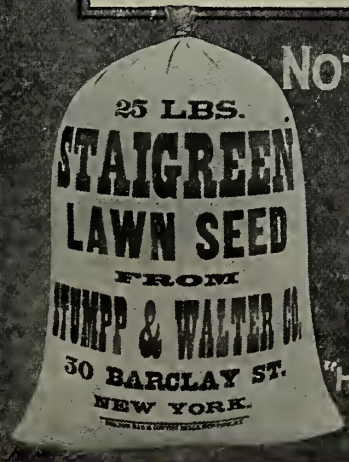
A mixture of grasses weighing 25 pounds per bushel, of high germination and purity, permanent in nature, the varieties carefully proportioned so that they will succeed one another in brightness of foliage, with the result that the lawn, even in its first year, will have a bright, rich green color from early spring until covered by snow.

Stumpp & Walter Co

One Pound will Sow a Plot 20 x 20 feet
Sow 80 Pounds to the Acre

30 and 32 Barclay St.
New York

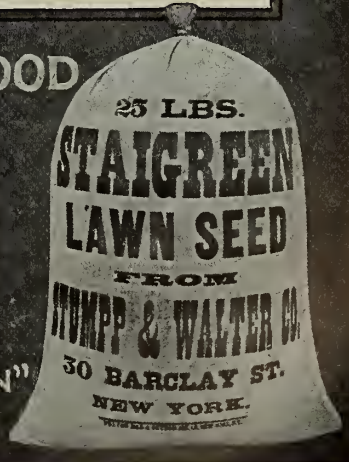
NOT HOW CHEAP, BUT HOW GOOD



DELIVERED ANYWHERE IN UNITED STATES

Pound	5 Pounds	25 Pounds	100 Pounds
40 cts.	$1.75	$8.00	$30.00

DELIVERED ANYWHERE IN UNITED STATES



"HOW TO BUILD A PERMANENT LAWN" PAMPHLET FREE IN EVERY BAG

HIGH-GRADE LAWN SEED

WEIGHS 22 POUNDS PER BUSHEL

Our High-Grade Lawn Seed is composed of the finest re-cleaned grasses, care being taken to include various varieties of grasses of the highest purity and germination, and is entirely free from weeds and all foreign matter.

The varieties are carefully proportioned so that they will succeed one another and give the lawn that much desired green, velvety appearance throughout the summer. The remarkably heavy demand for our lawn seed this past year proves the quality.

One quart will sow 15 x 15 feet, or 225 square feet; four bushels to the acre—for renovating old lawns, two bushels. **Qt. 25 cts., 4 qts. 85 cts., 8 qts. $1.50, bus. $5, 10 bus. $45.**

Terrace Sod Lawn Seed

To Grass a Bank or Terrace. For each square rod take two quarts of lawn grass seed and mix it thoroughly with 6 cubic feet of good, dry garden loam. Place it in a tub, and add liquid manure, diluted with about two-thirds of water, so as to bring the whole to the consistency of mortar. The slope must be made perfectly smooth, and then well watered, after which the paste should be applied, and made as even and thin as possible.

A special mixture of grasses best suited for sowing on terraces and side hills—grasses that produce strong, spreading roots, thus preventing heavy rains from washing them out, that will withstand drought and exposure, thrive on shallow soils, and at the same time produce a rich, green turf throughout the season. **Qt. 35 cts., 4 qts. $1, 8 qts. $1.75, bus. (20 lbs.) $6.**

Stumpp & Walter Co.'s Shady Place Lawn Seed

SHADY PLACE LAWN SEED

There is nothing more annoying in caring for a lawn than the bare, unsightly spots under the trees, shrubs, etc., and invariably all efforts have failed to get the grass to grow in such places; but, by sowing this mixture, the difficulties will be overcome. It is a combination of dwarf-growing varieties which will do well in all shaded places, being found in their natural state in woods and other sheltered spots. **Qt. 35 cts., 4 qts. $1, 8 qts. $1.75, bus. (20 lbs.) $6.**

Tenth Green of the Arcola Country Club, New Jersey
Accomplished by the sowing of the proper varieties of grasses in a mixture of seed of known purity and germination, the varieties carefully proportioned to suit climatic and soil conditions

Grasses for Golf-Courses

When you buy Grass Seed for golf-courses, either for putting-greens, fair-greens, or outlying grounds, great care must be taken to select only such seeds as will do best for the purpose.

First.—See that you get the proper varieties, for very often grasses are sometimes used that are not fit to make the proper sod. This means disappointment in appearance, and endless work in trying to rid the greens of such grasses.

Second.—The quality of the seed. This should always be bought with the known germination and purity.

Third.—If your soil is sandy, clayey, moist or dry, this all makes a difference; and where seeding is done, it is always best to have only such grasses in the mixture as will give the best satisfaction. This information can always be obtained by consulting us.

Our Grass Seed Department is second to none; we always have in great quantities such valuable Grasses as Creeping Bent, Rhode Island Bent, Red Fescue, and all other varieties of Grass Seeds that are generally used on golf-courses, whether for putting-greens, fair-greens, or outlying grounds.

Putting-Green Mixture

Composed of Creeping Bent, Rhode Island Bent, Red Top Re-cleaned, Fine-leaved Sheep Fescue, all of the very highest purity and germination. If for new work, or where the entire seeding of all greens is required, it would be best to consult us, and have us suggest the formula for the soil and location. **Lb. 50 cts., 10 lbs. $4.50, 100 lbs. $40.**

Fair-Green Mixture

The best-balanced, finest selection of Grasses that will give an even, tough and lasting turf. We can supply a general good mixture that we know will give good satisfaction; but in cases when a lot of seeding is to be done we should like to supply a special formula, according to the requirements of the soil, for which a price is made according to the varieties of Grasses recommended. **Qt. 25 cts., pk. $1.50, bus. (20 lbs.) $5, 10 bus. (200 lbs.) $45, 50 bus. or over, $4 per bus.**

GRASS MIXTURES FOR HAY AND PERMANENT PASTURE

For every different kind and condition of soil there are a large number of grasses, either indigenous or introduced, which are especially suitable. Some sorts do best on high ground and in dry weather; others prefer plenty of moisture. Some mature so early and others so late that from the beginning of spring until winter sets in there is no time when one species or another is not at its best. From these considerations, the importance of sowing many varieties for pasture and meadow purposes will be apparent, consisting of the following varieties: Orchard Grass, Meadow Foxtail, Sheep's Fescue, Rhode Island or Creeping Bent, Hard Fescue, Sweet-scented Vernal (True Perennial), Meadow Fescue, English Rye Grass, Italian Rye Grass, Red Top, Timothy, Red and Alsike Clover, blended in proportions which we have found, from actual use, give the most satisfactory results.

On ordinarily fertile soil 80 pounds of this mixture are sufficient to seed an acre, but where the land is poor a larger quantity will be necessary.

For Hay and Permanent Pasture for Light Soils.
For Hay and Permanent Pasture for Medium Soils.
For Hay and Permanent Pasture for Heavy Soils.
For Orchard and Shady Places.
For Hay only. Specially recommended for large hay crop.
For Pasture Only. Will stand close cropping without injury.

10 lbs. $2.50, 100 lbs. $20

S. & W. Co.'s Wheelbarrow Grass Seeder

STEEL DISC SMOOTHING HARROW

The frame measures 6 feet 8 inches by 6 feet, and has four sets of rollers, having 58 discs, 8 inches in diameter. Price $22; one-horse size, $21.25.

S. & W. CO.'S WHEELBARROW GRASS SEEDERS

(Weight, 45 to 50 pounds.)

On the market over thirty years and over 200,000 sold. For sowing all kinds of grass seeds broadcast, clover, timothy, alfalfa, Hungarian millet, rape and all small seeds. Also all chaffy seeds like red top, orchard grass, and clean blue grass, bent grass, any quantity per acre desired. They are no experiment, and are guaranteed to do an even, accurate, first-class job of seeding. Price (14 feet sowing area) $12.

GENERAL LIST OF GRASSES

Red Top Grass

	Lbs. per bus.	Per lb.	10 lbs.	100 lbs.
Agrostis stolonifera. (True Creeping Best.) This is our very best grass for putting-greens, being hardy, and the creeping habit of its roots, constantly adding to the size of its plant, forms the closest mat. Will stand severe rolling and constant cutting. Should be in all lawn mixtures, but on account of its very high price, is rarely used. Our seed of this very valuable grass is of the highest germination and purity.....	20	$0 60	$4 75	$45 00
Agrostis canina. (Rhode Island Bent.) Except that this variety is of a more tuft-forming habit, it is very similar to the Creeping Bent. It is very difficult to find true Canina, and very often the ordinary Red Top is used for it. Our experience has been, that to get the very best seed of this variety is to import it from Europe. The seed that we offer has a purity of 70 per cent and germination of 80 per cent. This is the finest obtainable.....	18	60	4 75	45 00
Agrostis vulgaris. (Red Top, Fancy.) Also known as English Bent. This grass, while being valuable as a lawn grass, is not so permanent as the preceding two varieties, very often sold as Creeping and Rhode Island Bent by dealers who have not given the proper study and interest in the different varieties. Our seed weighs 32 lbs. to the measured bushel, and has a purity of 95 per cent, and germination of 97 per cent, the very highest quality..	32	50	4 50	40 00
Agrostis vulgaris. (Red Top, Unhulled.) Vulgaris Choice. This seed is the same as the preceding variety, but is the natural seed as harvested, without being machined to remove the hulls, and is recommended for large seedings and mixtures. This seed rarely germinates more than 60 per cent, and our stock is always of the very highest quality.....	18	30	2 50	20 00
Alopecurus pratensis. (Meadow Foxtail.) One of the most valuable varieties for permanent pastures.	10	70	6 00	50 00
Anthoxanthum odoratum. (True Sweet Vernal.) For field mixtures.....	10	70	6 50	60 00
Avena elatior. (Tall Oat Grass.) A valuable grass for hay and permanent pasture mixtures.....	14	35	3 00	25 00
Avena flavescens. (Yellowish Oat Grass.).....	14	1 00	9 00	85 00
Cynodon dactylon. (Bermuda Grass.) Valuable in the South for lawns.....	36	75	6 00	50 00
Cynosurus cristatus. (Crested Dogtail.) An excellent grass for hard, dry soils; valuable for lawns in mixture.....	30	45	3 75	35 00
Dactylis glomerata. (Orchard Grass.) A valuable grass for shaded pastures, and should be in all pasture and hay mixtures.....	14	40	3 00	25 00
Festuca duriuscula. (Hard Fescue.) A good grass for lawns and grazing pastures, where the soil is poor and dry.....	20	40	3 50	30 00
Festuca elatior. (Tall Fescue.) True Rhenish. It is one of the most valuable grasses to go in mixtures for hay.....	22	40	3 50	30 00
Festuca heterophylla. (Various-leaved Fescue.) An even, tuft-forming grass, does well on light soils. It is a very good grass for lawns, for which its fine brush-like bottom leaves make it exceedingly fit.....	15	70	6 00	50 00
Festuca ovina. (Sheep, or English Fescue.) Does well on light, sandy soils, where other grasses have poor or no chance. A good grass for pastures.....	16	45	4 00	35 00
Festuca ovina angustifolia. (Fine-leaved Sheep Fescue). A very good grass to go in mixtures for lawns. Inclined to burn the first season, but soon recovers and makes a very good turf the second year.....	22	60	5 50	50 00
Festuca pratensis. (Meadow Fescue.) One of the best upper grasses for permanent pastures; yields an abundance of fodder of great nutritive value. Much liked by all kinds of stock.....	27	35	2 50	22 00
Festuca rubra. (Chewings.) New Zealand-grown. A partly creeping, tuft-forming grass; it thrives on all sorts of soil, even on dry, sandy bottoms, and forms a rather thickly covered turf, leaving very little room for weeds to come through. It is also valuable for shady places in lawns, and has been found to do well under the shade of pine trees.....	24	35	3 00	25 00
Lolium Italicum. (Italian Rye.) For quick growth, and to assist other grasses during the first year; used in pasture mixtures in small quantities only.....	22	15	1 35	12 00
Lolium perenne. (English Rye.) Used for lawn mixtures where cheapness is the chief consideration,—do not use for fine work.....	24	15	1 35	12 00
Lolium perenne. (Pacey's.) Used the same as English Rye, but the seed is shorter-grained, and claimed by some to be more hardy than English Rye.....	30	18	1 50	14 00
Phleum pratense. (Timothy.) For hay only.....	45	15	1 35	12 00
Poa pratensis. (Kentucky Blue Grass.) One of our best grasses for lawn or field; does best when sown with other grasses.....	21	25	2 25	20 00
Poa nemoralis. (Wood Meadow Grass.) Valuable for growing under trees, and our very best grass for shady lawns.....	20	60	6 00	50 00
Poa trivialis. (Rough-stalked Meadow Grass.) One of the best grasses for hay and permanent pasture mixtures.....	26	55	5 00	45 00

All our seeds are carefully examined as to purity and growth in our own laboratory and tested by the leading Seed Testing Stations, such as Zurich (Switzerland), Hamburg (Germany), Paris (France), Washington, D. C.

The percentage of purity and growth are determined before we send out any seeds of any description from our establishment, and, in comparing prices, remember that we will furnish, on application, the percentage of purity and growth. We have only the very best qualities.

Prices on Grass and Clover seed subject to change without notice. Our Grass and Clover Seeds are the very finest, purest, re-cleaned seeds. We do not carry the cheaper grades. Prices are f. o. b. Boat or Railroad in New York City; bags extra at cost

Selected Winter Seed Wheat

Prices subject to market changes. Delivery f. o. b New York; bags extra at cost

Jones' St. Louis Grand Prize (Beardless)

This variety has proven itself to be adapted to all soils, doing well on light, sandy, clay loam, or river-bottom lands, and is also almost as entirely fly-proof as a wheat can be. A strong, vigorous grower, with dark, wide foliage. The straw is of medium length and very stocky; heads are square, compactly filled from base to tip, not extremely long, but the wide breasts running the length of the head encroach upon each other for room, and contain mostly four kernels each; color medium dark red, and of excellent milling quality. One of our customers reported a yield of 46 bushels to the acre; so many were the stalks and heads crowning them that if a hat were thrown in the field it would remain on top—the wall of wheat would not part to permit the hat to slide to the ground. **Peck $1, ½bus. $1.75, bus. $3, in 10-bushel lots, per bus. $2.75.**

Fultzo-Mediterranean (Beardless)

A cross of the "Fultz" and the old "Mediterranean." The berry is short, plump, red. Chaff white and smooth, without beards. The heads are medium length, very compact, well filled, inclined to widen at the top. Coming from two vigorous, hardy varieties, it is believed to have inherited the good qualities of both its valuable parents. "Fultzo-Med." has certainly proved itself a variety of extreme hardiness and great productiveness. Ripens early, stools well, the straw is of medium length to long, and so stiff that it will not lodge. **Pk. 75 cts., bus. $2.25, in 10-bus. lots,$2.15 per bus.**

The illustration is heads of Jones' Red Wave Wheat, two-thirds natural size

Jones' Red Wave

Jones' Red Wave (Beardless)

This grand Wheat has fully maintained the good opinion expressed when first sent out in 1906. It is a cross between early Red Clawson and an unnamed crossbreed of Russian parentage. It is a bald Wheat with brown chaff; dark, medium-long, large grain; heads very long and broad, filled with medium-long, large, hard, dark kernels, rich in gluten. Straw golden; above medium height, stocky, very strong, thick-walled and not liable to go down; heads slightly leaning, hence not liable to sprout in the field. This variety last season gave a yield of 49 bushels and 2 pounds per acre in a field, the balance of which was sown to Dawson Golden Chaff that produced only 27 bushels per acre. Part of the first swath between the two going into the Dawson for fear of stray heads of Dawson; also raking adjoining, thus cutting the yield nearly a bushel. A plot on trial-grounds produced at the rate of 68 bushels and 5 pounds per acre. **Pk. 75 cts., bus. $2.50; in 10-bus. lots, $2.25 per bus.; 100-bus. lots, $2.15 per bus.**

Harvest King (Beardless)

Keeps right to the front among the standard varieties. If anything, this splendid, red-chaff, smooth variety stands higher even than it did several years ago. In the summer of 1909, Harvest King wheat yielded at the Pennsylvania State Experiment Station 34.3 bushels per acre. **Pk. 75 cts., bus. $2.35, in 10-bus. lots, $2.25 per bus.**

Silver Sheaf Longberry (Bearded)

The most perfect Longberry Red Wheat grown, and will make a sensation among wheat growers and millers as soon as known. This marvel originated from a cross between the well-known American Bronze and a cross from Lancaster and a seedling Longberry. It is one of the hardiest of all Wheats, a strong, healthy grower and can be sown very late. If sown early, 1½ bushels of seed per acre will be enough on strong soil. Straw of light yellow, medium tall, thick-walled and strong; head long, wide and full; chaff thin and silvery white; grain large, dark and flinty, and nearly as long as rye kernels. It will command the highest market price of any Longberry yet grown, and will be the leading fancy milling Wheat of this country. **Pk. 80 cts., bus. $2.50, in 10-bus. lots, $2.40 per bus. Seamless bags 22 cts. extra for each two bushels.**

MAMMOTH WHITE WINTER RYE
Cutting a field of Mammoth White Winter Rye on the estate of Clarence H. Mackay, Roslyn, L. I., N. Y.

SEASONABLE FARM SEEDS

Prices f. o. b. Boat or Railroad, New York, and are subject to market changes

MAMMOTH WHITE WINTER RYE

Unquestionably the heaviest-cropping Rye in existence, having in fair tests outyielded all other varieties both in straw and grain. The heads average 6 to 8 inches in length and are filled from end to end with large, plump, heavy grains. The straw is giant in length and strength and of extraordinary stiffness, resisting severe wind and rain-storms to a remarkable degree without lodging. **Bus. $2; in 10-bus. lots, $1.90 per bus. Selected Winter Rye, $1.75 per bus.; in 10-bus. lots, $1.60 per bus.**

RECLEANED ALFALFA

Now Is the Time to Sow

Sow 30 to 40 pounds per acre if broadcasted, or 25 to 30 pounds if drilled in in May, or during August and Early September, or most any season when weather conditions are favorable, top-dress it with manure every fall, and it will rarely winter-kill. It can be cut usually three times in one season. The great secret in getting a successful stand of Alfalfa lies in the preparation of the ground; it will pay everyone who wants to grow this valuable farm-crop to give the ground preparation most intelligent thought. It must be borne in mind that an Alfalfa field properly started will yield successfully a score of years. Ask for our Pamphlet on Alfalfa, mailed free. **Lb. 30 cts., 10 lbs. $2.75, 100 lbs. $25.**

CRIMSON CLOVER (*Trifolium incarnatum*)

Splendid and Economical Cover-Crop for Using Green or Plowing Under

Used principally for soiling or green manuring for which purposes it is largely used. If desired for feed, cut it just before it flowers; when desired for green manure or soiling it should be left until mature before plowing under. Sow Crimson Clover in September and October or at the last working of such crops as corn, beans, melons, cucumbers, tomatoes, etc., at the rate of 20 pounds to the acre. Where Crimson Clover is sown as a cover-crop it is very valuable for the ground over winter and when plowed under the following spring helps to improve the soils,—first by preventing much valuable fertilizing elements to escape over winter and second in restoring plant-food to the soil when plowed under. **Lb. 15 cts., 10 lbs. $1.35, 100 lbs. $12.**

VARIOUS CLOVERS

Alsike, or **Swedish** (*Trifolium hybridum*). Hardiest of all Clovers, and on rich, moist soil yields an enormous quantity of hay or pasture. Lasts many years. Sow 10 lbs. per acre when used alone. **Lb. 35 cts., 10 lbs. $3.25, 100 lbs. $30.**

Red Clover, Medium (*Trifolium pratense*). Medium Clover. The leading variety of Clover for pastures or meadows. Finest quality. Sow 20 pounds per acre alone, or 15 pounds where other grass or hay crops are standing. **Lb. 30 cts., 10 lbs. $2.50, 100 lbs. $20.**

White Dutch Clover. (*Trifolium repens*). The best variety for lawns, as it forms a close herbage and remains green throughout the season. **Lb. 45 cts., 10 lbs. $4.25, 100 lbs. $40.**

RECLEANED TIMOTHY

Our stock of this is unusually large and of very good quality. Sow 25 pounds per acre alone, or 15 pounds with wheat or grasses. **Lb. 15 cts., 10 lbs. $1.35, 100 lbs. $12, bus. $5.50** (45 lbs.).

WINTER VETCH (*Vicia villosa*)

True Sand or Hairy Vetch

Extensively used as a soil renovator or for dry or green feed in the early spring. It may be sown alone or with winter rye or oats; is perfectly hardy, thriving in every climate, under most adverse conditions. Is very nutritious and live-stock relish it. When sown with rye, etc., it will attain a height of 4 to 5 feet; it requires one-half bushel to sow an acre, or one bushel if sown alone. Sow as early as possible in the fall or summer and get a good growth before cold weather sets in. 60 lbs. per bushel. **Lb. 25c., 10 lbs. $2, 100 lbs. $18, bus. $12.**

FARMOGERM

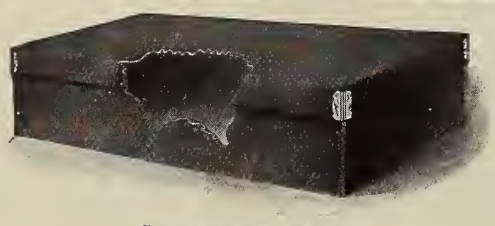
The wonderful fertilizer for all Clovers and Vetch

For further description ask for book on FARMOGERM SEED INOCULATION

Furnished in bottles, 1-acre size $2, 5-acre size $6, 50-acre size $55

All Farm Seeds listed on this page are furnished in seamless bags, for which a charge of 22 cts. for each two bushels is made

Flower Boxes, Baskets, Pots, and Fiberware



Corrugated Flower Box

Flower Boxes

Cardboard, Flower. Green; lock corners.

	Length	Width	Depth	100
No. 1.	18 in.	5 in.	3 in.	$3 00
No. 2.	21 in.	7 in.	3½ in.	5 00
No. 3.	24 in.	8 in.	4 in.	7 00
No. 4.	28 in.	8 in.	5 in.	9 00
No. 5.	36 in.	8 in.	5 in.	12 00
Violet.—	Length	Width	Depth	
No. 5.	11 in.	5½ in.	8 in.	7 00
No. 10.	9 in.	5 in.	6 in.	5 00

Corrugated Cardboard. Very heavy and durable; extensively used by florists for shipping cut-flowers.

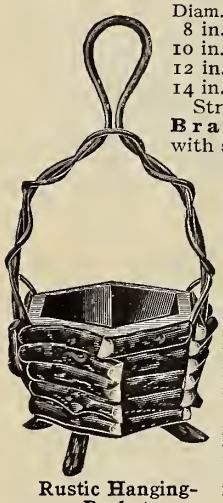
No.	Length	Width	Depth	Doz.	100
A.	20 in.	7 in.	4 in.	$1 20	$9 00
B.	28 in.	8 in.	5 in.	1 50	11 00
C.	30 in.	12 in.	6 in.	2 00	16 00
D.	36 in.	14 in.	8 in.	3 00	22 00
E.	48 in.	14 in.	8 in.	3 50	28 00

Wire Hanging-Baskets

Steel wire, heavily galvanized. Line with moss and fill with house plants requiring little soil. They look very unique.

Diam.	Each	Doz.
8 in.	$0 50	$5 00
10 in.	60	6 00
12 in.	70	7 00
14 in.	80	8 00

Strong, neat, swivel **Brackets** furnished with screws, 25 cts.

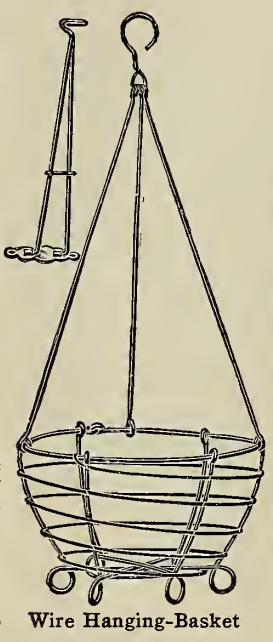


Rustic Hanging-Basket

Rustic Hanging-Baskets

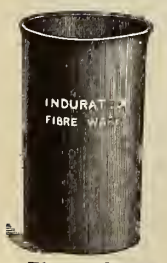
Bowl is hexagon-shaped, covered with laurel; fine finish. Are very attractive when filled with ferns and running plants.

Diam.	Each	Doz.
10 in.	$1 75	$15 00
12 in.	2 00	20 00
15 in.	2 50	25 00



Wire Hanging-Basket

Flower Vases. FIBERWARE. Waterproof



Flower Vase

For displaying cut-flowers. Not easily broken like earthen-ware; do not rust like metal Vases. Order by number. Inside dimensions are given.

No.	Depth	Diam.	Each	Doz.
0.	13 in.	8 in.	$0 70	$6 85
1.	10½ in.	5½ in.	60	5 90
2.	9 in.	4½ in.	50	5 10
3.	6½ in.	4 in.	45	4 25
4.	5 in.	3 in.	40	3 35
00.	21 in.	9½ in.	2 25	25 85
01.	20 in.	7 in.	1 20	13 35
11.	18 in.	6 in.	70	6 85
22.	15 in.	4½ in.	60	5 90
33.	12 in.	4 in.	50	5 00
44.	9 in.	3 in.	45	4 25

Flower-Pots, Standard

EARTHENWARE. Best on the market

Diam.	Doz.	100	1,000
2 in.	$0 10	$0 60	$5 40
2½ in.	12	80	7 20
3 in.	15	1 10	9 90
4 in.	35	2 00	18 00
5 in.	45	2 70	24 30
6 in.	75	4 50	40 50
7 in.	1 25	7 50	67 50
8 in.	1 50	10 00	90 00
9 in.	2 00	15 00	135 00
10 in.	2 75	20 00	180 00
12 in.	6 00	40 00	360 00

Flower-Pot

Saucers of same material, to fit pots, furnished extra

Diam.	Doz.	100	1,000
4 in.	$0 25	$2 00	$18 00
5 in.	30	2 40	21 60
6 in.	35	2 80	25 20
7 in.	[illegible]	3 20	28 80
8 in.	$0 50	$4 00	$36 00
9 in.	85	6 80	61 20
10 in.	1 00	8 00	72 00
11 in.	1 50	12 00	108 00

Flower-Pot Saucer

Flower-Pot Saucers

FIBERWARE. Waterproof

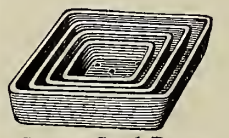
Light and not readily broken; have a surface that will not scratch like earthenware. Order saucer 2 inches larger than the bottom diameter of pot.

No.	Diam. outside	Each	Doz.
5	5 in.	$0 12	$1 25
6	6 in.	14	1 40
7	7 in.	15	1 50
8	8 in.	16	1 60
9	9 in.	17	1 70
10	10 in.	$0 18	$1 80
12	12 in.	20	2 00
14	14 in.	30	3 00
16	16 in.	45	4 80
18	18 in.	60	6 60

Bulb-Pans. EARTHENWARE

Diam. at top	Depth	Doz.	100
8 in.	4 in.	$1 00	$8 00
10 in.	5 in.	1 50	12 00
12 in.	6 in.	2 00	16 00
14 in.	7 in.	4 00	32 00
16 in.	8 in.	8 00	64 00
18 in.	9 in.	12 00	96 00

Bulb-Pan



Square Seed-Pans

Square Seed-Pans

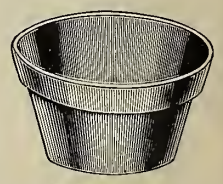
EARTHENWARE

Size	Doz.	100
6x 6 in.	$3 00	$24 00
8x 8 in.	4 00	32 00
10x10 in.	5 00	40 00
12x12 in.	6 00	48 00

Azalea-Pots

These pots differ from standard flower-pots in that they resemble the bulb-pans but are deeper. Excellent for growing bulbs for exhibition.

Diam.	Depth	Doz.	100
6 in.	5 in.	$0 75	$4 50
7 in.	6 in.	1 25	7 50
8 in.	7 in.	1 50	10 00
9 in.	7½ in.	2 00	15 00
10 in.	8 in.	2 75	20 00
12 in.	10 in.	5 00	35 00



Azalea-Pot

Flower-Pot Brackets

Made of steel, artistic in design, finished in black. Saucers are absolutely secured by spring clasp.

	Each
No. 1A. Length of arm 8 in. Clasp will hold 5-in. pot.	$0 30
No. 2A. Length of arm 10 in. Clasp will hold 6-in. pot.	40
No. 3A. Length of arm 12 in. Clasp will hold 7-in. pot.	45

Flower-Pot Handles and Hangers

(Krick's Perfect)

	Doz.
No. 0. Will fit from 2- to 3½-in. pots.	$0 20
No. 1. Will fit from 3½- to 5-in. pots.	30
No. 2. Will fit from 5- to 8-in. pots.	40
No. 3. Will fit from 8- to 12-in. pots.	50

MISCELLANEOUS SUPPLIES

FOR COMPLETE LIST OF IMPLEMENTS AND SUPPLIES, SEE OUR SPRING CATALOGUE

Aprons, Gardener's. English made.

	Each
Fine shalloon, 39-inch, with bib and pocket	$2 25
Fine shalloon, 36-in., with bib and pocket	2 00
Heavy serge, 39-in., with bib and pocket	1 50
Heavy serge, 36-in., with bib and pocket	1 25

Bamboo Canes. See Plant Stakes, page 52.

Blinds, Split Bamboo. Tied with hemp string, and with pulleys. For shading greenhouses, or for porches and verandas. 5, 6, 8, 10, and 12 feet wide, all 8 feet long in the drop. Price, $3 per 100 square feet. Intermediate sizes of above made to order. Price on application.

Broom, Bamboo. Excellent for sweeping lawns, putting-greens and walks. Made of bamboo. 50 cts. each, $5 per doz.

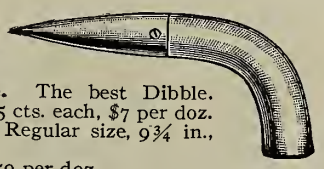
Carnation Supports. Model Extension, 2-ring, 50 cts. per doz., $3 per 100; 3-ring, 60 cts. per doz., $3.50 per 100.

Carnation Bands, Rubber. To prevent splitting of calyx. 50 cts. per oz.

Clips, Eureka. For fastening rose and chrysanthemum wire stakes. $1 per box of 500, $1.50 per box of 1,000.

Corn Knife. For cutting cornstalks or heavy grass. 35 cts. each, $3.50 per doz.

Dibbles, or Dibbers



Just the tool for planting bulbs where ground is in good condition.

Brass Point and Wood Handle. The best Dibble. Polishes quickly; does not rust. 65 cts. each, $7 per doz.

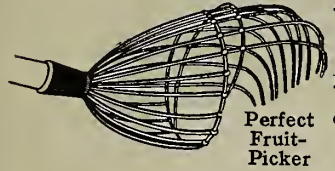
Steel Point and Wood Handle. Regular size, 9¾ in., 50 cts. each, $5.50 per doz.
Small size, 8 in., 40 cts. each, $4.50 per doz.

Forks

Hay. Finest-quality steel; oval-shaped tines, solid-steel shank, patent ferrule, long and strapped. 2-tine, 65 cts. each; 3-tine, 75 cts. each; 4-tine, 85 cts. each.

Manure. Long or short handle. 4-tine, D handle, best material, $1; 5-tine, D handle, best material, $1.25; 6-tine, D handle, best material, $1.50. Long-handle Manure Forks may be had at same prices.

Spading. 4-tine, D handle, best material, $1.10; 5-tine, D handle, best material, $1.35. Long-handle Spading Forks may be had at same prices.



Perfect Fruit-Picker

Fruit-Picker, Perfect. Made of steel wire, heavily galvanized; can be attached to any pole. 35 cts.

Fumigators and **Vaporizers.** See page 55.

Gloves, Gardeners'. Heavy goat, for protecting hands. $1 per pair.

Garden and Greenhouse Barrows

	Each
Regulation, No. 2, Boys'. Holds 2 cubic feet of earth	$3 25
Regulation, No. 4, Medium. Holds 4 cubic feet of earth	4 00
Regulation No. 5, Standard Size. Holds 5 cubic feet of earth.	4 50
Wood Canal. Fully bolted; with wooden wheel	2 25
Wood Canal. Fully bolted; with steel wheel	2 75
Greenhouse. Built especially for narrow walks in greenhouse; also excellent for poultry-houses	4 50

Glazing Materials

Mastica, for Glazing Greenhouses. The use of Mastica avoids the necessity of repeatedly re-glazing the houses, saving much time and expense. With Mastica one can bed in or use outside with a machine. $1.50 per gal., $7 for 5 gals.

Mastica Machine. $1.25 each.

Glazing Putty, Twemlow's Old English. Will not crack or peel. One gallon glazes 300 lineal feet. Qt. 55 cts., gal. $1.75.

Putty Bulb, Scollay. A useful tool similar to the well-known Scollay Sprinkler, with a tube instead of spray for applying liquid putty in glazing greenhouses. $1.

Glazing Points, Van Reyper's. No rights or lefts. No 2, Large, for single thick glass. No. 2½, Double thick, for greenhouses and skylights. Box of 1,000, 65 cts.; 5,000 for $3.
Pincers or pliers for same, 50 cts.

GLAZING MATERIALS, continued

Siebert's Improved Glazing Points. Easy to drive and made so they will not wedge or crack glass in driving. The head gives a good surface and makes it very easy to drive with a chisel, and the point is very easily pulled out when repairing greenhouse roof.
Two sizes, ⅝- and ⅞-inch long, put up in 1-pound packages. Over 1,400 points in 1-lb. pkg. of ⅝; over 1,100 points in 1-lb. pkg. of ⅞. 40 cts. per lb., 7 lbs. $2.50.

Clamp, Peerless Repair. Simple device for repairing broken greenhouse glass. Easily adjusted from inside of houses. Saves labor, coal and glass. If applied as soon as crack is noticed, the pane is just as strong as before and will not sag or drop out. Per box of 100 clamps, $1.

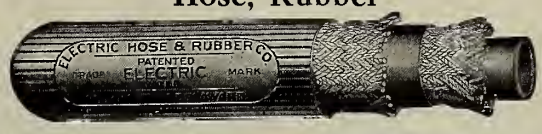
Diamond Glass Cutter. With guide-wheel. $3.

Red Devil Glass Cutter. 10 cts., 15 cts. and 25 cts.

Putty Knife. No. 100. A very good tool. 25 cts. each, 3 for 65 cts.

Grafting Wax. ¼lb. 10 cts., ½lb. 15 cts., lb. 25 cts.

Hose, Rubber



Electric. Three-ply, non-kinkable, molded Hose. The strength and durability of this Hose places it with the very best grade of Hose manufactured.
Standard lengths, ¾-inch bore, 25 ft., $5; 50 ft., $10.
Standard lengths, ½-inch bore, 25 ft., $4.50; 50 ft., $9.
Other lengths, ¾-inch bore, cut and coupled, 20 cts. per ft.
Other lengths, ½-inch bore, cut and coupled, 18 cts. per ft.

S. & W.'s Special Brand (Wayahead). Surpasses all the cheaper grades of Hose. Its durability is not excelled by much of the higher-priced Hose. It is three-ply, seamless and non-kinkable. The satisfaction it gives is proved in the increased demand for it each season. Standard lengths, ¾-inch bore, 25 ft., $4.50; 50 ft., $9.
Other lengths, ¾-inch bore, cut, 18 cts. per ft.

Armored. This Hose is bound with steel wire, galvanized. Positively non-kinkable. Will stand rough usage; excellent for all kinds of construction work.
Standard lengths, ¾-inch bore, 25 ft., $3.75; 50 ft., $7.50.

S. & W.'s Wearlong Brand is a medium-grade Hose. It is excellent for garden and greenhouse work, and gives very good satisfaction.
Standard lengths, ¾-inch bore, 25 ft., $3; 50 ft., $6.
Standard lengths, ½-inch bore, 25 ft., $2.75; 50 ft., $5.50.

Hose Nozzles

Mistry Jr.

Stott's. A Nozzle that has become a favorite among rose-growers, etc., for exterminating red spider. Splendid Nozzle for reaching under the foliage; gives a very fine, misty spray. Single, $1.25; double, $1.75.

Mistry Jr. Can be used for spraying whitewash. $1 each.

Boss. Very effective for use on red spider. $1.

Magic. Brass Hose Nozzle, ¾-inch. Has a shut-off, a stream and a rose spray. Without rose, 70 cts.; with rose, $1.

Shubert. Made for general all-round use. Solid brass. $2.50.

Justrite Spray. A very popular adjustable Nozzle. It gives a copious spray or a well-defined full stream. Has a positive shut-off, by turning the barrel of the Nozzle. 40 cts.

Bordeaux Spray Nozzle. A good nozzle for whitewash and all heavy spray materials. 90 cts.

HOSE COUPLINGS, Lightning. ¾-inch, 35 cts.
Regular. ½-inch, 20 cts.; ¾-inch, 25 cts.

Hose Menders

Cooper's Brass. ½- and ¾-inch, 7 cts. each, 75 cts. per doz.; 1-inch, 8 cts. each, 85 cts. per doz.

Perfect Clincher. 10c. each, $1 per doz., ½inch or ¾-inch.

Jones' Iron. 5 cts. each, 50 cts. per doz., ½-inch or ¾-in.

Cooper's Brass Hose Menders

Hudson. Practical, simple and perfect. Box of 6 tubes and 20 bands, with pliers, 75 cts. (Give size of hose when ordering.)

MISCELLANEOUS SUPPLIES, continued

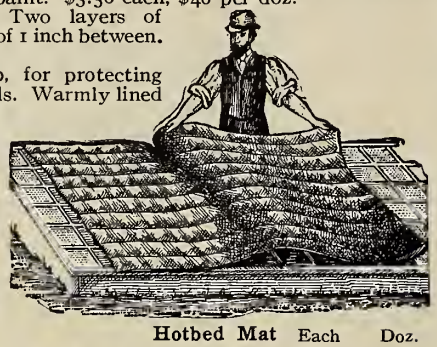
Hotbed Sash. Well made from clean cypress, glazed and painted two coats of white paint. $3.50 each, $40 per doz.

Double-Glass Sash. Two layers of glass with an air-space of 1 inch between. $5 each, $55 per doz.

Hotbed Mats. Burlap, for protecting coldframes and hotbeds. Warmly lined with waste wool and cotton, which are quilted in to hold position.

No. 1. 40x76 in. Cloth on both sides. $1.20 each, $13 per doz.

No. 1. 76x76 in. Cloth on both sides. $1.75 each, $19 per doz.



Hotbed Mat	Each	Doz.
No. 2. 40x76 in. Waterproof Duck and Cloth	$1 30	$14 00
No. 2. 76x76 in. Waterproof Duck and Cloth	2 00	22 00
No. 3. 40x76 in. Waterproof Duck on both sides	1 50	16 50
No. 3. 76x76 in. Waterproof Duck on both sides	2 50	27 50

Knives

Turf Edging. For cutting edges of walks, flower-beds, etc. $1 each.

Solid Welded Steel Edging. Socket handle; made of the very best steel; imported English. 8-inch $1.25, 9-inch $1.35. Each

Half-Moon. Solid steel, with a polished handle..... $0 60
Without handle..... 45

Pruning—
No. 1, horn handle, 1 blade..... 1 00
No. 2, " " 1 " 90
No. 3, " " 2 " 1 00
No. 4, ebony " 1 blade..... 75
No. 5, " " 1 " 65

Budding—
No. A, ivory handle, Saynor..... 1 75
No. B, bone " S. & W..... 90
No. C, ivory " S. & W..... 1 50
No. D, " " 1 25
No. E, " " 2 blades..... 1 50
No. F, ebony " 1 blade..... 50

Pot and Garden Labels

Wooden	PLAIN 100	PLAIN 1,000	PAINTED 100	PAINTED 1,000
4-in.	$0 15	$0 60	$0 15	$0 90
4½-in.	15	80	20	1 00
5-in.	15	90	20	1 25
6-in.	20	1 00	25	1 35

Wooden	PLAIN 100	PLAIN 1,000	PAINTED 100	PAINTED 1,000
8-in.	$0 40	$3 50	$0 50	$4 00
10-in.	45	4 00	55	5 00
12-in.	55	4 50	60	5 50
3½-in., copper-wired.	25	2 00		

Zinc, Garden. These are unsurpassed, being neat, durable and indelible. The ink marks a jet-black, which remains distinct, Use a clean quill or pointed stick.

No.	Doz.	100
1—4¾x3½	$0 25	$1 25
2—4 x2¾	20	1 10
3—4 x3	20	1 10
4—5 x1	20	1 10
5—3½x2½	25	1 30

No.	Doz.	100
6—2¼x2	$0 20	$1 10
7—2¾x⅞	15	75
13—2¾x1¼	15	75
14—1½x1¼	15	65
15—4¼x4¾	15	65

Bateman's Permanent Label Holder. This Label-Holder is finished with an index card covered with mica, making it waterproof. 15 cts. each, $1.75 per doz., $12.50 per 100.

Label Pencils. Permanent writing on wooden labels. 5 cts. each, 50 cts. per doz. X-L-All Indelible, 10 cts. each, $1 per doz.

Label Indelible Ink. For zinc labels. 25 cts. per bottle.

Netting. Bird netting to protect all small fruits and vegetables. A good quality of cotton netting, 1-inch mesh, only in 20- and 30-ft. widths and of any reasonable length. 85 cts. per 100 square feet.

Paper—
Wax. 24x36. Ream....$3 00
18x24. Ream..... 2 00
Tissue. 24x36. Ream.. 1 00
Manila. 24x36. Ream...$2 00
Wrapping. 40x48.. Lb... 10

Plant Sprinkler, Scollay. Made of best rubber. Straight-neck, 95 cts.; Angle-neck, $1.

Post-Hole Auger. In soil free from large stones and roots, this tool works with great satisfaction. It is used as an ordinary auger-bit. 6-in. diameter, $1.25; 8-in. diameter, $1.50.

Post-Hole Digger, Iwan. Ease of operation and superior and rapid work are features of this new Digger; more than two hundred holes a day can be dug with it. 6-inch, $2.25; 8-inch, $3.

Raffia, Natural. For tying plants. Lb. 25 cts., 5 lbs. $1.10.
Colored. All colors. For basket-making. Lb. 50 cts.

Scythe Rifles, Emery-coated. 15 cts. each, $1.50 per doz.

Scissors, Grape-Thinning. 75 cts.; **Flower-Gathering,** 75 cts.

Shears, Pruning, S. & W. Co.'s Solid Steel. Made for long service; easily adjusted. 7½ in. $1.25; 8½ in. $1.50; 9½ in. $1.75.
Pruning, California. 50 cts.
Pruning, French. 5½ in. $1.25, 6½ in. $1.35, 8 in. $1.45, 9 in. $1.75.
Pruning, Kunde. Made of best steel, double cut, splendid finish, very durable. $3.
Pruning, Wiss. A very satisfactory Shears, tempered to cut continuously without dulling; has detachable blade. 9 in. $2, 10 in. $2.50.
Pruning, Lady's Nickel-plated. 5½ in. 90 cts., 6½ in. $1.
Pruning, S. & W. Co.'s Special. Steel blades, malleable handles. 50 cts.
Grass. Full nickel, solid steel. 6-in. blade 75c., 7-in. blade 90c.
Grass, Imported English. Best procurable. 6½ in., bent, $1.25.
Border and Grass Edging. 10-in. blades, $2.50; with wheel $2.75.
Lawn. 10-in. blades, with two wheels. $2.75.
Hedge. Imported English, plain blade. 8 in. $1.25, 9 in. $1.50. 10 in. $2; 8 in. notched, $1.50; 9 in. notched, $1.75; 10 in. notched, $2.25.

Screens. Handy for ashes, coal, sands, gravel, etc. Extra-heavy wire; spruce frames. Small size, 25x62 inches, $6; large size, 28x66 inches, $7. State whether ¼-, ½-, ¾- or 1-inch mesh is desired.

Silkaline. See **Twines.**

Shovels, Ames' Long and D Handles. Long-strapped, round or square $1.50.
S. & W. Co.'s Pointed and Square. $1.

Spades, Ames' Long and D Handles. $1.50.
S. & W. Co.'s Special Long and D Handles. $1.
English Turfing. For cutting and lifting sod. $5.
American Turfing. $1.25.

Plant Stakes and Supports

Plant, Tapering, Green—

	Doz.	100
1½ feet	$0 20	$1 25
2 feet	30	1 75
2½ feet	40	2 60
3 feet	$0 50	$3 40
3½ feet	60	4 25
4 feet	70	5 25
5 feet	80	6 00

Carnation Supports. See page 51.

Chinese Cane. These are genuine Chinese canes, very strong and heavy.

	100	1,000
4 feet, heavy	$1 75	$15 00
5 feet, heavy	2 00	16 00
6 feet, heavy	2 25	$20 00
7 feet, heavy	2 75	25 00

Green Bamboo Canes, Light. Excellent for tying up peonies and gladioli.

	100	1,000
2 feet	$0 50	$4 00
2½ feet	75	6 00
3 feet	90	7 00
3½ feet	$1 00	$8 00
4 feet	1 20	9 00
5 feet	1 40	12 00

Japanese Cane. For staking plants and trees.

	100	1,000
6 feet	$1 00	$8 00
8 feet	1 50	12 00
10 feet	3 00	25 00
12 feet	5 00	45 00
14 feet	$7 00	$65 00
16 feet	10 00	90 00
18 feet	12 50	110 00
20 feet	15 00	140 00

Dahlia Poles—

	Doz.	100
3 feet	$0 75	$6 00
3½ feet	90	7 00
4 feet	$1 00	$8 00
5 feet	1 30	10 00
6 feet	1 40	11 00

Galvanized Wire—

	100	1,000
3 feet	$1 75	$12 50
3½ feet	2 00	14 50
4 feet	2 25	16 00
4½ feet	$2 50	$18 00
5 feet	2 75	20 00
6 feet	3 25	25 00

The Standard Rubbish Burner

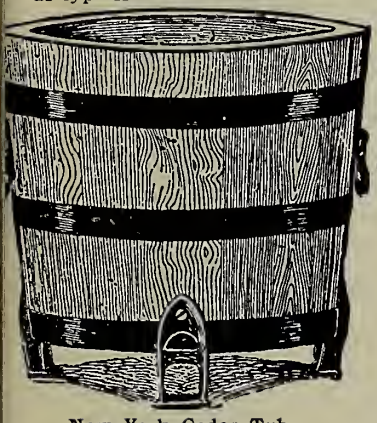
The best receptacle used for burning leaves, paper and all kinds of rubbish. This handy Burner is a safeguard against many fires that have their origin from the burning of rubbish in the open. The Burner is extra strong, manufactured of heavy galvanized steel wire, reinforced with iron supports. Made to give life-long satisfaction. We supply this Burner in three sizes.

No.	Diam.	Height	Weight	Each
2	15 in.	24 in.	16 lbs.	$2 15
2½	18 in.	30 in.	22 lbs.	3 50
3	20 in.	35 in.	33 lbs.	4 25

MISCELLANEOUS SUPPLIES, continued

Plant-Tubs

Plant-Tubs, New York Cedar. Made of the very choicest seasoned cedar, highly finished with black hoops; will last twice as long as cypress tubs.



New York Cedar Tub

No.	Inside measurement Diam.	Height	Price
1	12 in.	10½ in.	$1 10
2	13 in.	13 in.	1 40
3	14½ in.	15 in.	1 70
3½	16½ in.	15¾ in.	2 25
4	19½ in.	17 in.	2 40
5	22½ in.	18½ in.	3 20

Tree-Tubs, Cedar. Heavy; particularly adapted for large, heavy plants.

No.	Outside diam.	Length of staves	Price
0	27 in.	24 in.	$6 00
1	25 in.	22 in.	5 00
2	23 in.	20 in.	4 50
3	21 in.	18 in.	4 00
4	18 in.	16 in.	3 50
5	16 in.	14 in.	3 00
6	14 in.	12 in.	2 50
7	13 in.	11 in.	2 25
8	12 in.	10 in.	2 00

Plant-Tub Rolling Stands

Heavy Fiberware, Waterproof. Stand consists of two pieces of steel, securely riveted to four casters. Will support heavy tubs, pots, etc. Can be readily rolled about without injuring the floor. No dampness under the stand. When ordering give the outside diameter of bottom of tub.

Outside diam.	Takes tubs of bottom diam.	Each	Doz.
12 in.	10 in.	$0 60	$6 00
14 in.	11 in.	70	7 00
16 in.	13 in.	85	8 50
18 in.	15 in.	1 00	10 50
20 in.	17 in.	1 25	12 50
22 in.	20 in.	1 50	15 00

Twines

S. & W. Co.'s Smilax Thread. This Thread is very strong, green in color and warranted not to fade. Best Thread on the market. 10 cts. per spool, 85 cts. per lb., $2.50 per box of 3 lbs.

Silkaline. Very largely used for tying. Three sizes, F, FF, and FFF. 25 cts. per spool, $1.50 per box of 8 spools.

Bouquet Twine. White, in 3-oz. balls. 35 cts. per lb., $1.50 for 5 lbs.

Sea Island Cotton. Green, 2-oz. balls, 10 cts. per ball, 75 cts. per lb.

Twine, Soft. For tying vines, etc.; very strong. 2- and 3-ply. Large balls, 15 cts., 2 balls for 25 cts.

Tarred Yarn. Excellent, low-priced material for raspberries, shrubs, etc. Lb. 15 cts.

Tarred Marline. Of better quality than the above; twisted in strands. In 2-lb. balls. Lb. 18 cts.

Watering Pots, Haw's Pattern—

No. 0. 3 qts.; shelf; 9-in. spout, one pot rose and extra joint	$2 00
No. 2. 4 qts.; japanned; 2 roses	3 00
No. 3. 6 qts.; japanned; 2 roses	3 50
No. 4. 8 qts.; japanned; 2 roses	4 00
No. 5. 10 qts.; japanned; 1 rose and spreader	4 50

Plain. Heavy galvanized; round and oval; each pot has two roses —one fine and one coarse.

6-quart, round	$2 00	6-quart, oval	$2 25
8-quart, round	2 25	8-quart, oval	2 50
10-quart, round	2 50	10-quart, oval	3 00
12-quart, round	2 75	12-quart, oval	3 50

Weeders, Reversible Weed Gouge. 35 cts.

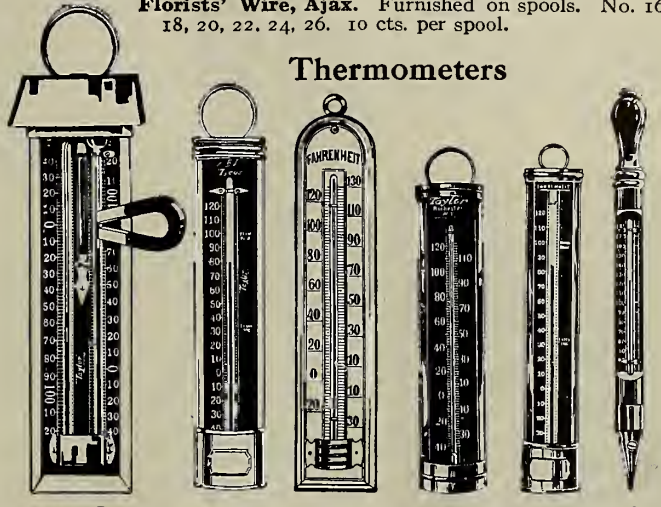
Chisel-Blade Weed Cutter. Long handle, with foot-rest. 60c.

Wire, Bouquet, Florists' Annealed. Nos. 22, 23 and 24. In coils of 12 lbs., $1.50 per coil.

Florists' Bright. Cut in lengths. In boxes of 12 lbs. (one stone). 12 in. and 18 in. long. No. 22, $1.50; No. 24, $1.75.

Florists' Wire, Ajax. Furnished on spools. No. 16, 18, 20, 22, 24, 26. 10 cts. per spool.

Thermometers



5452P 5400 5232 5154 5420 5981

No. 5452P, Self-Registering. (Siexe's Pattern.) Copper case, black brass scale, white figures. **Maximum and Minimum.** 8-inch, $3.50; 10 -inch, $4. Magnet with each.

No. 5400. Black japanned heavy tin case; brass scale, white figures. (Mercury.) Scale range, 10 to 40 degrees below zero to 120 above. **Standard Grade.** 8-inch, 75 cts.; 10-inch, $1.

No. 5420. Black japanned heavy tin case. For greenhouses. Black oxidized brass scale, white figures. (Spirit.) 8-inch, 30 cts.; 10-inch, 45 cts.; 12-inch, 60 cts.

No. 5154. Copper case; distance reading. Black oxidized brass scale, white figures. (Spirit.) Scale range, 120 degrees above to 40 degrees below zero. 8-inch 50 cts.; 10-inch, 75 cts.

No. 5232. Wood back, with white porcelain scale. Large, black figures and graduations. Can be easily read at a distance. Polished oak. A good spirit Thermometer. 8-inch, $1; 10-inch, $1.25.

No. 5981. Hotbed. Wood frame, 16 inches, with point. Brass oxidized scale, white figures and graduations. Best grade, $1.50.

ILLINOIS SELF-WATERING WINDOW-BOXES

Remarkable for the small amount of attention required to secure the finest growth in all kinds of plants. The reservoir in bottom provides the water as needed; it is only necessary to examine the surface of the soil occasionally and, if dry, to refill the reservoir. A liberal supply of air to the roots is constantly maintained through the sponges, the soil will always be found mealy and loose, and the moisture is always evenly distributed from top to bottom of soil. Do not refill reservoir unless the condition of the soil shows that watering is needed.

Price for either design A or B

No.	Height in.	Width in.	Length in.	Capacity qts.	Price
1	8	9½	23	2½	$2 30
2	8	9½	25	3	2 50
3	8	9½	27	3½	2 70
4	8	9½	29	4	2 90
5	8	9½	31	4½	3 10
6	8	9½	33	5	$3 30
7	8	9½	35	5½	3 50
8	8	9½	37	6	3 70
9	8	9½	39	6½	3 90
10	8	9½	41	7	4 10

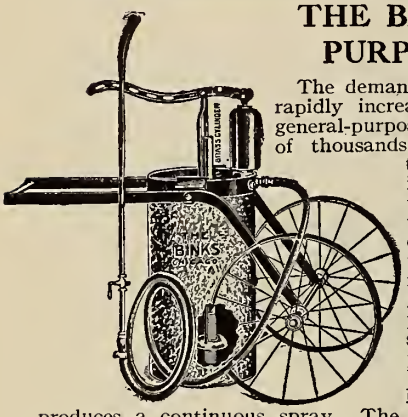
FOR BULBS. Our Self-watering Baskets and Boxes are, without question, the most satisfactory device for growing bulbs ever devised. A beautiful and certain growth, with a minimum of care.

FOR FERNS. Nearly every home-lover is a lover of ferns, but few succeed with them. They never fail in Illinois Self-Watering Flower-Boxes or Hanging-Baskets.

Self-Watering Window-Box, Design A

Sprayers for Applying Insecticides and Fungicides

THE BINKS GENERAL-PURPOSE SPRAYER



The demand for this portable Sprayer is rapidly increasing. The efficiency of this general-purpose Sprayer is finding the favor of thousands of florists and poultrymen throughout the country. This is a well-made machine. The tank consists of heavy galvanized steel, with a capacity of twelve gallons. This narrow-tread Sprayer meets all the requirements demanded in greenhouses and on poultry plants. The pump is of ample size; the pump and all working parts are brass; it has bronze ball valves; is double-acting; has a large air-chamber and produces a continuous spray. The machine is equipped with a dasher agitator which, by each operation of the pump-handle, cleans the suction strainer of any sediment collecting thereon and prevents all clogging. Whitewash, cold-water paint and all liquid insecticides are applied successfully with this Sprayer. A good nozzle, 10 feet of ½-inch good-quality hose, with a 3-foot spray rod and shut-off are furnished. $15. Weight net 45 lbs.; shipping weight, 65 lbs.

AUTO-SPRAY

Convenient, durable, efficient. Will do better work and do it easier than any other similar article. Useful with bordeaux and all solutions, also in applying cold-water paint or whitewash. Holds four gallons. Illustration shows our new "Auto-Pop" attachment which doubles the efficiency by saving half the solution and labor. Tank made of galvanized steel or brass, etc. Castings for handle, etc., all malleable. A few strokes of plunger compresses enough air to cover a quarter-acre of potatoes or similar crop. Also used for spraying disinfectants. A practical machine for potatoes, tobacco, small fruits, vineyards poultry-houses, greenhouses, etc. Detailed descriptive circular on request.

Auto-Spray No. 1, Brass Tank, with "Auto-Pop"	$7 25
Auto Spray No. 2, Galvanized Tank, with "Auto-Pop"	5 00
Two-Row Attachment for spraying two rows at one passing	1 35
2-foot Brass Extension	45
Brass Elbows for spraying under vines	30
Torch	90
Brass Strainer for straining solution	90

POMONA SPRAY PUMPS

The Best Barrel Spray Pump on the Market

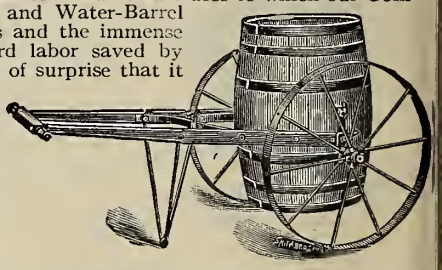
It is of large capacity and powerful, with long adjustable leverage, so that it is easily operated by one person, when necessary, but is especially built for spraying from two leads of hose. The unusually large steel air-chamber gives sufficient pressure for a continuous and regular spray. All working parts are of brass, including plunger and valves, which are easily accessible; it has a paddle agitator. The bulk of the pump goes within the barrel, it is not top-heavy, and does not catch low branches.

Pomona Outfit A. Sprayer with agitator and one lead of 15 feet of ½-inch spray hose, with Mistry Jr. Spray Nozzle.
With barrel.....$21 00

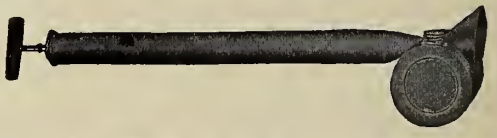
Pomona Outfit B. Same as the above, except with two leads of hose and two nozzles. (See cut.)
With barrel.....$23 00

If trunnions are desired to put barrel on, our S. & W. Co.'s Truck is recommended. 50 cts. extra.

S. & W. CO.'S TRUCK, LEAF-RACK AND WATER-BARREL COMBINATION



When we consider the almost innumerable uses to which our Combined Truck, Leaf-Rack and Water-Barrel can be put, its handiness and the immense amount of time and hard labor saved by its use, it is not a matter of surprise that it is steadily growing in popular favor. It is one of those articles that cause the user to wonder how he ever did without it, as it really becomes indispensable when once used. Truck and Barrel as in cut, with 2½-inch tires, $13; with 3½-inch tires, $14; with Handy Cart Box, length 37 x 23½ in. wide by 8 in. deep, $3.50; with leaf-Rack, 42 in. long by 28 in. wide by 21 in. deep, $5 extra. Complete with Truck, Water-Barrel, Box and Leaf-Rack, $20.



D. B. S. SPRAY PUMP

A marvelous insect exterminator; throws a spray as fine as mist, and is therefore more effective than any other Spray Pump, and loses only about one-tenth the liquid. No. 1, all tin, 50 cts. each; No. 1, all brass, $1 each. Weight, 3 pounds.

S. & W. CO.'S BRASS SYRINGES

These Syringes are applicable for all horticultural purposes in the conservatory and garden. They are fitted with roses and jets for ejecting water in one stream or dispersing it in a fine or coarse spray, as required. Specially adapted for applying fluid insecticides.

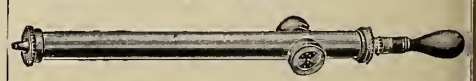
No. A. Barrel, 12 in. long, diam. 1 in. One spray rose and one jet, $2.25. Weight, 3 lbs.

No. G. Barrel 16 inches long, diam. 1½ in. One spray rose and one stream jet, side attachment and elbow joint for sprinkling under foliage. $4. Weight, 4 lbs.

No. H. Sheet-brass Syringe, with fixed spray rose. Barrel 16 inches long, diam. 1½ inches, $2.50. Weight, 4 lbs.

No. 2. Barrel 13¼ inches long, diam. 1 1/16-inch. One coarse and one fine spray rose and one jet, side attachment, $4. Weight, 4 lbs.

No. 10. Barrel 18 inches long, diam. 1½ inches. One coarse and one fine spray rose and one stream jet, with patent valves and elbow joint for sprinkling under the foliage. $6. Weight, 5 lbs.



No. 11. Same as No. 10, without patent valves, $5. Weight, 5 lbs.

REMEDIES FOR INSECTS AND FUNGUS

This list contains most of the remedies used in the fall of the year. For a more extensive list see our Spring Catalogue, pages 141 and 142.

Ant Exterminator. A powder that is used for distributing around buildings, on the greenhouse benches, on lawns, gardens, and any other places infested by ants. ¼lb. 20 cts., ½lb. 40 cts., lb. 75 cts.

Aphine. Effective against all soft-bodied and plant-sucking insects, such as green, black and white fly, red spider, thrips, mealy bug, brown and white scale. Used as a spray when diluted with water in the proportions as directed on each can. Endorsed by professional gardeners and commercial growers of reputation. An insecticide which can be used indoors and in the garden. An excellent cleanser for house plants. Gal. $2.50, qt. $1, pt. 65c., ½pt. 40c., ¼pt. 25c.

By special arrangements with the manufacturers, we can send the following sizes express prepaid: Qt. $1.25, pt. 75 cts., ½pt. 50c.

Aphis Punk. Used for fumigating in greenhouses, giving off dense fumes of nicotine. Box, 12 rolls, by mail, 75 cts.

Arsenate of Lead. For all leaf-eating insects. Guaranteed not to injure the foliage. Three pounds will do the work of four pounds of other brands, and will not readily wash off. Guaranteed to contain an average of 20 per cent arsenic. Lb. 25 cts., 2 lbs. 40 cts., 5 lbs. 90 cts., 10 lbs. $1.75, 25 lbs. $3.50, 50 lbs. $6.50, 100 lbs. $12, 600 lbs. (barrel) $60.

Black Leaf 40. A concentrated solution of nicotine sulphate; an excellent spray for black aphides and sucking insects of all kinds. Dilutes one part to 900 or 1,000 parts of water, according to treatment. Full directions on each package. 1-oz. bottle 25 cts., ½-lb. tin 75 cts., 2 lbs. $2.50, 10 lbs. $10.75.

Borowax. The fruit-grower's friend. A complete protection against borers if properly applied to peach, plum, apple, pear and quince trees. Qt. 35c., ½gal. 60c., gal. can $1, 6 gals. $5, ½bbl. $20, bbl. $35.

Climax Lawn Sand. A unique combination of carefully dried and finely ground chemicals. Destroys weeds in lawns. 3½-lb. can 40 cts., 7-lb. can 75 cts., 14-lb. can $1.25, 28-lb. pkg. $2, 56-lb. pkg. $3.50, 112 lbs. $6, 560 lbs. $25, 1,120 lbs. $45.

Copper Solution Ammoniated. A fungicide the same as bordeaux mixture, the essential ingredient, carbonate of copper, being dissolved in ammonia in this while in bordeaux it is counteracted by lime. Bordeaux is the cheaper and most popular for all ordinary purposes, but for late sprayings, when fruits are nearing maturity, or plants in bloom, copper solutions are usually used. Qt. 75 cts., gal. $1.75.

"Electro" Tree Wound Paint. When applied it is an insurance against decay because its scientific composition gives penetrating, antiseptic and elastic waterproofing qualities found in no other paint. The lighter antiseptic material carries the heavier waterproofing material into the pores of the wood, and fixes them there so that the heat of the sun and other conditions cannot cause the coating to break away from the treated wood. Qt. 50 cts., gal. $1.50, 5 gals. $6.25, 10 gals. $10.

Fir-Tree Oil Soap. A formula of fir-tree oil, prepared in soap form and preferred by some. It will do all claimed for the fluid preparation. ½lb. tin 25 cts., 2 lbs. 75 cts., 10 lbs. $3.50.

Fungine. An infallible remedy for mildew, rust, wilt, bench-rot, and other blights affecting flowers, fruits and vegetables. Highly endorsed by leading growers. It is equally effective under glass and out-of-doors. A spraying material which is diluted with water and does not stain the foliage. Gal. $2, qt. 75 cts., pt. 50 cts., ½pt. 35 cts.

By special arrangements with the manufacturers, we can send the following sizes, express prepaid: Qt. $1.15, pt. 75 cts., ½pt. 50c.

Lemon Oil. Odorless and poisonless; one to thirty to fifty parts of water. Destroys mealy bug, scale, thrips, red spider, black and green fly, caterpillar, etc. ½pt. 25 cts., pt. 40 cts., qt. 75 cts., ½gal. $1.25, gal. $2.

Lime-Sulphur, Bowker's Concentrated. One gallon makes ten gallons of spray; dilute with cold water. Bowker's Lime-Sulphur is manufactured under the direct personal supervision of skilled graduate chemists who have devoted years to manufacturing spraying materials, with the one dominant idea that any spray to be worth branding "Bowker's" must be absolutely the best of its kind. Bowker's is "Lime-Sulphur with the guesswork left out."

We sell and recommend Bowker's Lime-Sulphur because we have full confidence in it, and it has given our customers excellent satisfaction. 1-gal. can, 65 cts.; 5-gal. can, $2; 10-gal. can, $3.50; In barrels at 18 cts. per gal.

Nicoticide. Used as a spray or as a vapor, principally in the latter way. We have a special lamp which has a tin saucer above it in which is placed the material (quantity to be determined by cubic feet of air-space in the greenhouse) and the nicotine fumes are thus distributed. It is very effective in destroying thrip, aphis, white fly, red spider, etc. ¼pt. 70 cts., ½pt. $1.25, pt. $2.50, qt. $4.50, ½gal. $8.25, gal. $15.

Nico-Fume Liquid. This preparation is used similar to Nicoticide, and is used by many of the leading growers. ¼-lb. can 50 cts., 1-lb. can $1.50, 4-lb. can (½gal.) $5.50, 8 lbs. (1 gal.) $10.50.

Nico-Fume Paper. This is a paper treated with nicotine, giving off dense fumes of strong nicotine when ignited. It is also used for tying near blooms of chrysanthemums in early fall to keep down insects. Preferred by many who do not wish to spray or vaporize. Box of 24 sheets 85c., box of 144 sheets $4, box of 288 sheets $7.50.

Nikoteen. One of the milder forms of tobacco or nicotine preparations, used extensively for spraying; also for vaporizing. ¼pt. 40c., pt. $1.50, a case of 10 pts. $14, 4 lbs. (½gal.) $5, 8 lbs. (1 gal.) $10.

Nikotiana. Is a twelve per cent solution for vaporizing and spraying. Less concentrated than other nicotine products, it is nevertheless equally effective at proportionate strength and fully as economical. Where a nicotine solution is desired, Nikotiana will meet all the requirements. Qt. $1.50, gal. $4.50.

Scalecide. Soluble crude oil. Used for the destruction of the San José scale. Dilute at the rate of one gallon to twenty gallons of water. Scalecide does not clog nozzles, hose or pump, and is pleasant to use. This preparation is perhaps the best known and is very widely advertised. Orchardists throughout the country use it in large quantities. Trees may be sprayed in winter and early spring before they start to come to bud. Qt. 45 cts., gal. $1, 5 gals. $3.25, 10 gals. $6, 30-gal. bbl. $16, 50-gal. bbl. $25.

Scaline. A scale-killer, insecticide and fungicide combined—three in one—which is composed of a high-grade petroleum combined with the properties of our fungicide, Fungine. Can be applied in the growing season as safely as in the dormant season to all trees, shrubs and hardy plants. It is used at a strength of one to twenty parts water for scale; one to fifty parts water for other sap-sucking insects. Gal. $1.50, 5-gal. keg $6.25, 10-gal. keg $10, bbl. (50 gals.) $37.50.

Sulpho-Tobacco Soap. For plants, trees, cattle, poultry, etc. 3-oz. pkg. 10 cts., 8-oz. pkg. 20 cts.

Tobacco Dust (Kilmdead). The best of the Tobacco Dusts for dusting or fumigating. Lb. 10 cts., 5 lbs. 40 cts., 25 lbs. $1.25, 50 lbs. $2.25, 100 lbs. $4.

Tobacco Stems. Used for fumigating and under benches in greenhouses. Bale of 100 lbs. $1.50.

Vermine. A soil sterilizer and germicide for all soil vermin, such as cut-, eel-, wire-, and grub-worms, slugs, root-lice, maggots and ants. Use one part of Vermine to 400 parts of water, thoroughly soaking the ground. It does its work effectively without injury to vegetation, and protects your crops and lawns against the ravages under the soil. ¼pt. 25 cts., ½pt. 40 cts., pt. 65 cts., qt. $1, gal. $3, 5-gal. keg $12.50.

X-L-ALL LIQUID INSECTICIDE. Destroys mealy bug, scale, thrip, red spider, green and black fly, caterpillars, blight and all insect pests in the garden; it is perfectly safe to use on tender plants. For the winter dressing of vines, figs, peaches and other fruit trees, it has been proved to be the safest and most valuable preparation in the market. Leaves the foliage bright and clean, and much improved in appearance. Qt. $1.25, ½gal. $2.25, gal. $4.50.

X-L-ALL Vaporizing Compound. Used very extensively abroad for vaporizing. No. 1 (sufficient for 40,000 cubic feet), $8; No. 2 (sufficient for 20,000 cubic feet), $4.50; No. 3 (sufficient for 10,000 cubic feet) $2.25.

Defiance

Fumigators and Vaporizers

Fumigator, "Eureka." For fumigating with tobacco stems

No. 1, holds ½ peck stems..... $9 50
No. 2, holds 1 peck stems..... 2 00
No. 3, holds ½ bushel stems..... 2 50

Vaporizing Lamp, Defiance. Practical and indestructible; all metal; burns kerosene; used for dispensing fumes of Nico-Fume and other preparations of this sort. 50 cts. each.

Vaporizer, Campbell's Patent Sulphur. Designed to vaporize sulphur in greenhouses without danger. Most useful for killing mildew and other fungous diseases.

No. 1, for houses up to 5,000 cubic feet of space.....$6 00
No. 2, for houses up to 10,000 cubic feet of space..... 7 50

Glass Balls for above. Box of 6, 15 cts.

Yellow Powder. Tin, 20 cts.

Hollow or **Solid Wicks,** for either size, 15 cts.

X-L-ALL Vaporizing Lamp. A lamp specially designed for vaporizing of X-L-All Compound. Small size, 50 cts.; larger size, 75 cts.

Sulphur Vaporizer

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Belgian

Special Window-Garden Collection of Hyacinths

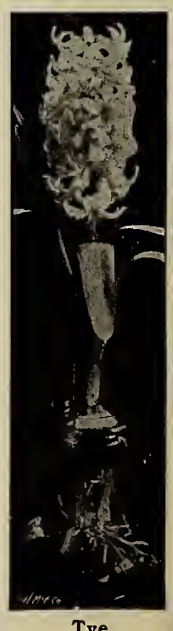
We have selected six of the best varieties listed on page 11 which are especially adapted for window-garden culture: Pink, Gigantea; Red, Robert Steiger; White, L'Innocence; Light Blue, Potgieter; Dark Blue, Marie, Yellow, Yellow Hammer.

6 bulbs, one of each variety....$0 75
18 bulbs, three of each variety.... 2 00
36 bulbs, six of each variety.... 3 50

Hyacinth Glasses

Hyacinths can be easily and successfully grown in water, giving good spikes of bloom. Single varieties are generally used. *Cannot be sent by mail.*

Belgian or Tye Shapes. In 5 shades—Crystal, Blue, Green, Amber and Amethyst, Belgian shape, 20 cts. each, $2 per doz. Tye shape, 25 cts. each, $2.50 per doz.



Tye

J. HORACE MCFARLAND COMPANY, MT. PLEASANT PRESS, HARRISBURG, PA.

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uantity	ARTICLES	Price		Quantity	ARTICLES	Price	
		$	Cts.			$	Cts.

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Our list contains the very best and most modern kinds. We can quote special prices on carload quantities

All prices subject to market changes

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No. 1 Bone Dust for Quick Action. A fine-ground bone of the best quality that is immediately available. As a top-dressing or for mixing with soil will be found very effective. 5 lbs. 30 cts., 10 lbs. 50 cts., 25 lbs. $1, 50 lbs. $1.60, 100 lbs. $3, ton $50.

No. 2 Bone Dust for General Use. A bone dust about pinhead size, with a fair percentage of bone flour, Excellent for top-dressing lawns as well as good for mixing with soil. Sold largely to carnation- and rose-growers for top-dressing and for mixing with soil. 5 lbs. 25 cts., 10 lbs. 40 cts., 25 lbs. $1, 50 lbs. $1.60, 100 lbs. $3, ton $45.

No. 3 Crushed Bone for Vines and Trees. Largely used for vines, trees and shrubs. About the size of a bean. Very effective and lasting. 5 lbs. 30 cts., 10 lbs. 50 cts., 25 lbs. $1, 50 lbs. $1.60, 100 lbs. $3, ton $50.

S. & W. Co.'s Charcoal. Excellent for mixing with soil for pot-plants, also for vines. Three sizes, No. 1, Powdered; No. 2, Medium; No. 3, Lumps, 3 to 4 inches. Any size, per bag of 50 lbs. $1.25.

Limestone, Pulverized. Is pulverized almost as fine as flour, 80 to 85 per cent passing a 200-mesh screen (a screen having 40,000 holes to the square inch); this screen will hold water. This fineness makes it immediately available to the soil and plant-life. Coarse particles are of little value until they disintegrate, which will take years, according to the coarseness. This product is having a large sale among the most intelligent agriculturists, with the best results. It is made from the purest crystalline, white limestone obtainable, and has many advantages over burnt or caustic lime. Not being caustic, it does not burn the humus in the soil, and may be applied at any time of the year without danger. It is good for all crops, is especially recommended for the successful growing of alfalfa, and, owing to its extreme fineness, admits of very even distribution. Apply at the rate of 1 ton to the acre. Put up in 100-lb. bags, $1, 500 lbs. $3.50, 1,000 lbs. $6, ton $10. In carload lots, f.o.b. works, $7 per ton.

Lime, Agricultural, Hydrated. This Lime is specially prepared for use on the soil, and is a combination of calcium-hydrate and calcium-carbonate, finely pulverized. Quantity required: Heavy soils, 2,000 to 6,000 lbs. to the acre; light, sandy soils, 1,000 to 3,000 lbs. to the acre, according to their apparent need. 100-lb. bag $1.25, 500 lbs. $5, ton $14. In lots of three tons or over, $12.50 per ton; carload lots, $9 per ton, f.o.b. New York.

GENERAL LIST OF FERTILIZERS

ASHES, CANADA HARDWOOD. Quantity required: Apply one to two tons to the acre, as one heavy application will help much more than the same quantity would applied in fractions. Bbl. of about 200 lbs., $3; ton of 2,000 lbs., in bbls., $25; by car, $23 per ton.

BASIC SLAG. See Phosphate.

BON ARBOR. A complete plant-food. High in nitrogen, potash and phosphoric acid. ½-lb. package, makes fifteen gallons of liquid, 25 cts., 1-lb. package 50 cts., 5-lb. package $1.80. Circular on application.

"BONORA, NATURE'S PLANT-FOOD." 5 lbs., making 140 gallons, $2.50; ¼-lb. package, 25 cts.; 1-lb. package, 50 cts. Circular and further information on application.

BOWKER'S AMMONIATED FOOD FOR FLOWERS. Made especially for plants grown in the conservatory, house or garden; clean, free from offensive odor. Full directions with each package. Small size 15 cts., large size 25 cts.; by mail, 20 cts. and 30 cts.

CLAY'S CELEBRATED FERTILIZER. In bags, 1 cwt. (112 lbs.), $7; ½cwt. (56 lbs.), $4; ¼cwt. (28 lbs.) $2.25; ⅛cwt. (14 lbs.), $1.25.

COW or CATTLE MANURE, Shredded. One sack of this is equal to one cartload of fresh cow manure; is convenient to handle, making it possible for everyone to get this usually scarce article at all times. In 100-lb. sacks only, 100 lbs. $2.50, 500 lbs. $11.25, 1,000 lbs. $20, ton $35.

DRIED BLOOD. Ammonia 14 per cent. Excellent for carnations. 10 lbs. 75 cts., 50 lbs. $3, 100 lbs. $5.

EMERALD LAWN DRESSING. A clean, portable and convenient Lawn Dressing, which we have found to be never-failing in inducing a rapid and rich green growth. It should be sown broadcast in the spring or fall, though it can be put on during the summer without injury or danger of burning the grass, and a remarkable improvement will soon be observed. It is in every way more desirable than manure. The use of Emerald Lawn Dressing entirely does away with the old practice of top-dressing lawns with stable manure. Quantity required: A 10-lb. package is sufficient to go over an area of 300 square feet, or for forming a new lawn, from 1,000 to 1,500 lbs. to the acre, or a smaller quantity for renovating an old one. 5 lbs. 25 cts., 10 lbs. 45 cts., 25 lbs. $1, 50 lbs. $1.75, 100 lbs. $3, 500 lbs. $14, 2,000 lbs. (ton) $50.

FARMOGERM. High-bred nitrogen-fixing bacteria. Farmogerm is put up in bottles in the following sizes: **Garden Size, containing material to treat the seeds for one-sixth acre of land, 50 cts.; acre-size, containing material to treat the seeds for one acre, $2; five-acre size, containing material to treat the seed for five acres of land, $6.** For the following crops in acre-sizes: **Red Clover, Mammoth Clover, Crimson Clover, White Clover, Bur Clover, Sweet Clover, Alsike, Alfalfa, Berseem, Peanuts, Vetch, Lupins, Garden Beans, Garden Peas, Sweet Peas, Cowpeas, Canadian Field Peas, Soy Beans and all other legumes. Ask for book on the Farmogerm Method.**

MURIATE OF POTASH. A form of Potash salts to be used with bone meal, bone and blood, or farm manures, on fruits, celery, asparagus, corn, oats, turnips, cucumbers, grapes, carrots, onions, peas, clover and beans. Must not be used on hops, potatoes, tobacco, flax, sugar beets, cabbage or cauliflower. Apply 50 to 400 lbs. to the acre. Lb. 25 cts., 5 lbs. $1, 10 lbs. $1.75, 25 lbs. $3.75, 50 lbs. $7, 100 lbs. $12. Prices subject to change without notice. Prices on larger quantities on application.

NITRATE OF SODA. Quantity required: Being extremely soluble, it is usually applied after the plants are above ground. 100 to 500 lbs. to the acre. 1-lb. tin 15 cts., 5-lb. package 40 cts., 10-lb. package 75 cts., 25-lb. bag $1.50, 50-lb. bag $2.50, 100 lbs. $4.50.

PHOSPHATE, High-Grade Acid or **Rock.** Apply 1,000 lbs. to the acre. Used for mixing with other fertilizers to increase the phosphoric acid analysis. In 200-lb. sacks only, $2.50; ton, $17.

PHOSPHATE, Thomas' Basic Slag. Contains proper elements to produce a rich, luxuriant growth; apply 600 to 800 lbs. to the acre. 5 lbs. 25c., 10 lbs. 40c., 25 lbs. 75c., 50 lbs. $1.25, 100 lbs. $2.25.

SALT. For agricultural purposes, asparagus beds and putting on walks and roads to kill weeds. Apply 600 to 800 lbs. to the acre in early spring. 10 lbs. 20 cts., 25 lbs. 30 cts., 50 lbs. 55 cts., 100 lbs. $1, 200 lbs. $1.50, ton $10.

SCOTCH SOOT. Genuine imported. For stimulating a healthy growth of dark green foliage, and it will free the soil of slugs, grubs and cutworms. 10 lbs. 60 cts., 50 lbs. $2.50, 100 lbs. $4.

SHEEP MANURE, PURE PULVERIZED. A pure, natural, nutritious manure. Immediate and lasting in effect. Excellent for mixing with the soil for greenhouse plants. In the vegetable-garden it promotes a rapid, steady growth until maturity. It makes a rich liquid manure. Quantity required: For garden and field crops, one to two tons to the acre; one half before plowing, the balance before harrowing. For top-dressing grass, use 1 ton to the acre, applied in fall or early spring. 100-lb. bag $2.25, 500 lbs. $10, ton $35. In packages of 5 lbs. 25 cts.; 10 lbs. 40 cts.

THOMSON'S VINE, PLANT AND VEGETABLE MANURE. 28 lbs. $1.75, 56 lbs. $3.50, 112 lbs. $6.75.

THOMSON'S SPECIAL CHRYSANTHEMUM AND TOP-DRESSING MANURE. An excellent stimulant. 7-lb. bag, $1.50, 14-lb. bag $2.50, 28-lb. bag $4, 56-lb. bag $7.

CHARCOAL, COCOANUT FIBER, PEAT AND MOSS

Charcoal. For prices and sizes, see above.

Cocoanut Fiber. Excellent material for use in growing bulbs without drainage. 5 lbs. 20 cts., 25 lbs. 75 cts., 50 lbs. $1.25, 100 lbs. $2.

Leaf-Mold. Used for preparing rhododendron beds. Bbl. $3.

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Peat (Osmundi). For orchids. Bbl. $2.50.

Peat, Rotted, Fibrous. An excellent material for mixing with potting soil for many plants. This peat has been dug from an old bog and exposed for a number of years until it has become thoroughly decayed. Bbl. $2.50.

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